SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1150.1

SECOND QUARTER 2004 MONITORING REPORT BRADLEY LANDFILL AND RECYCLING CENTER SUN VALLEY, CALIFORNIA

Prepared for

Waste Management of California, Inc.

Bradley Landfill and Recycling Center

August 13, 2004

Prepared by

EMCON/OWT Solid Waste Services
3347 Michelson, Suite 200
Irvine, California 92612

Shaw Project No.: 108341 (03000000)

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Abbreviations

CARB	California Air Resources Board
FID	Flame Ionization Detector
GEM-500	CES-LANDTEC Gas Extraction Monitor
LFG	Landfill Gas
OVA	Organic Vapor Analyzer
PPB	Parts per Billion
PPM	Parts per Million
SCAQMD	South Coast Air Quality Management District
TGNMO	Total Gaseous Non-methane Organic Compounds
TOC	Total Organic Compounds

1 EXECUTIVE SUMMARY

This second quarter report for the year 2004 summarizes the monitoring and sampling results at the Bradley Landfill and Recycling Center (BLRC) for compliance with South Coast Air Quality Management District (SCAQMD) Rule 1150.1 f(2)(B) and pursuant to the conditions set forth in the Alternative Rule 1150.1 Compliance Plan (SCAQMD Application No. 394147) approved by SCAQMD on June 19, 2002. The Compliance Plan is found in Appendix A

1.1 Site Description and Background

The Bradley Landfill and Recycling Center (BLRC) is located in the Sun Valley District of Los Angeles, California, in the northwest portion of the Los Angeles metropolitan area. The landfill is owned and operated by Waste Management Recycling and Disposal Services of California, Inc. (WMRDSC) formerly Valley Reclamation Company and previously utilized as a sand and gravel pit by Conrock Company. Waste Management of Los Angeles Hauling Company also operates on the BLRC property. The landfill is a Class III waste disposal facility occupying approximately 209 acres. A site map containing the current landfill boundary and locations of landfill gas (LFG) extraction wells is presented as Figure 1.

An active LFG migration/emissions control system has been in operation at the site since 1982. During normal operation, the higher Btu value LFG is processed through the gas treatment plant and delivered to one (1) on-site and one (1) offsite LFG to energy facilities. Stewart and Stevenson (S&S) currently operates the on-site facility under contract by Waste Management, Inc. The off-site facility is owned and operated by Covanta Power Pacific, formerly known as Ogden Power Pacific. The on-site facility operated by S&S was placed into service on March 3, 2003. The lower Btu value gas (under 500 Btu/cf) collected from the Bradley east and the Bradley west perimeter is disposed of through the BLRC flare stations. When the higher Btu value LFG is not in demand by either of the LFG to energy facilities, the gas is routed to one of the on-site flare stations where it is combusted in accordance with SCAQMD rules and permit conditions.

1.2 Gas Collection and Disposal System

The BLRC gas collection and disposal system consists of the LFG Compressor Plant, the gas condensate collection system, three (3) LFG flaring systems, a LFG collection system and four (2) LFG to energy systems. The LFG collection series of header collection pipes, laterals, vertical extraction wells and horizontal collectors. Presently the system has 121 vertical dual completion wells, 109 single completion vertical wells and 13 horizontal collectors for a total of 364 wells.

Condensate currently drains by gravity to 18 collection sumps where it is conveyed pneumatically to the LFG treatment plant for processing. When the condensate destruction system is not in use, condensate is passed through the phase separator where the aqueous phase is removed and the hydrocarbon phase is stored. The aqueous phase is pH-adjusted before being discharged to the City of Los Angeles sanitary sewer system. As the hydrocarbon phase is accumulated, it is transferred to the larger hydrocarbon storage tank where it accumulates until transported off-site in accordance with all applicable regulations.

1.3 Monitoring and Sampling Activities Summary

Field activities performed by EMCON/OWT Solid Waste Services (EMCON/OWT) in this quarter included:

- Monthly subsurface perimeter probe monitoring (as required by the Local Enforcement Agency)
- Quarterly integrated surface emission monitoring and sampling for laboratory analysis
- Quarterly instantaneous surface emission monitoring
- Quarterly flare inlet landfill gas sampling for laboratory analysis
- Annual ambient air monitoring (24-hour)
- SCAQMD Rule 431.1 Sulfur Monitoring

AtmAA, Inc. performed the laboratory analysis for two integrated surface emission samples, flare inlet landfill gas samples, ambient air sample(s), and monthly perimeter probe sample from the probe with the highest field-obtained TOC concentration. The integrated surface samples were analyzed for toxic air contaminants (Toxic Air Contaminants--Core Group; Guidelines for Implementation of Rule 1150.1, Table 1), methane, and total gaseous non-methane organic compounds (TGNMOs) as stipulated by

SCAQMD's Rule 1150.1. The flare inlet landfill gas samples were analyzed for the concentration of fixed gases, hydrogen sulfide, and toxic air contaminants. The ambient air samples were analyzed for toxic air contaminants, methane, and total gaseous non-methane organic compounds (TGNMOs). The Environmental Protection Agency's (EPA) Method TO-15 was used for analyzing toxic air contaminants by gas chromatograph/mass spectrometry. The modified EPA Method 3C was used for analyzing fixed gases by gas chromatograph/thermal conductivity detector and methane. Total gaseous non-methane organics (TGNMOs) were analyzed using modified EPA Method 25C with gas chromatograph/flame ionization detection/total combustion analysis. A gas chromatograph/sulfur chemiluminescence detector was used for analyzing hydrogen sulfide per SCAQMD Rule 431.1, Application No. 267044 and analyzed using SCAQMD Method 307-91.

1.3.1 Subsurface Perimeter Probe Monitoring §1150.1(e)1

Subsurface perimeter probe monitoring was performed using a Landtec GEM-500 LFG monitor throughout the month of April 2004. A GEM-2000 LFG monitor was used in May and June 2004. Perimeter probes were monitored for percent methane by volume in air.

Alternative monitoring procedures are used in the area of perimeter probe E-8D including monitoring of the probe and performing surface emission monitoring of Grid 31-D, as specified in the Rule 1150.1 Compliance Plan for Bradley Landfill. These alternative monitoring procedures are implemented when TOC concentrations meet or exceed five (5) percent by volume, measured as methane. Results did not exceed 5% methane in perimeter probes except for Probe E-8D. Field and laboratory data from subsurface perimeter probe monitoring and laboratory TOC concentrations as methane are discussed in Section 2.2 and presented in Appendix B. Samples from the probe with the highest field-obtained TOC concentrations are sent to AtmAA Inc. for laboratory analysis.

1.3.2 Integrated Surface Emission Monitoring §1150.1 (e)2

The TOC concentration collected from each grid is listed in Table 3-1, Integrated Surface Sampling Field Summary. Field data sheets are presented in Appendix C. All of the integrated TOC readings were within compliance limits, as set forth by SCAQMD Rule 1150.1. Typically, the two samples having the highest field TOC concentrations are sent to the laboratory for further analysis. The TOC background reading was 5.0 ppm. During surface emissions monitoring, TOC concentrations above background were no more than 2 ppm. In some grids, observed readings were 1 to 2 ppm below background. Samples from grids 86 and 88 were randomly selected for laboratory analysis.

RES Environmental obtained samples from grids 86 and 88 and submitted them for laboratory analysis for methane, Total Gaseous Non-Methane Organic Compounds (TGNMOs) and toxic air contaminants. Laboratory analysis of the samples collected from Grid Nos. 86 and 88 detected low-level concentrations (less than 5 parts per billion [ppb]) of toluene. The laboratory reports are presented in Appendix C.

1.3.3 Instantaneous Surface Emission Monitoring §1150.1 (e)3

Instantaneous surface emission monitoring, conducted on April 22, 27, and 29, May 26, June 3 and 11, and June 17 and 25, 2004, consisted of monitoring the landfill surface for the presence of landfill gas (LFG) emissions. Total organic compound (TOC) measurements (measured as methane in parts per million [ppm]) were recorded in accordance with procedures described in the SCAQMD Guidelines for Implementation of Rule 1150.1. Areas of the landfill where TOC concentrations were greater than 500 ppm TOC as methane were re-monitored within 10 calendar days of the original detection. Instantaneous surface emission monitoring field data are presented in Appendix D.

In April 2004, instantaneous monitoring of Grids 105, 115, and 37 detected concentrations of 2,000, 3,000, and 500 ppm TOC as methane, respectively. These areas were repaired on April 22, 2004 and re-monitored on April 27 and April 29, 2004. Re-monitored concentrations were 5 ppm TOC as Methane for each of the three grids.

May 2004 instantaneous monitoring of Grids 112, 23, 24, and 37 detected concentrations of 100,00, 10,000, 10,000, and 1,000 ppm TOC as methane, respectively. These areas were repaired on May 26, 2004 and re-monitored on June 3, 2004. Re-monitored concentrations were 2,000, 200, 200, and 1,500 ppm TOC as methane respectively. Further repairs were necessary on Grids 112 and 37. Repairs were made on June 3, 2004 and the grids were re-monitored on June 11, 2004. Re-monitored concentrations for Grids 112 and 37 were 350 and 200 ppm TOC as methane, respectively.

Nine (9) grids exceeded 500 ppm TOC during the June 2004 instantaneous monitoring event. The detected concentrations ranged from 500 to 100,000 ppm TOC as methane. These grids were repaired on June 7, 2004 and re-monitored on June 25, 2004. The re-monitored concentrations ranged from 5 to 300 ppm TOC. Additional discussion pertaining to grids is discussed in Section 4.2.

1.3.4 Landfill Gas Chemical Analysis §1150.1 (e)4

Landfill gas samples were collected from the gas compressor inlet location and from each of the three landfill gas flaring systems on May 27, 2004 and were analyzed for fixed gases, TGNMOs, toxic air contaminants, and hydrogen sulfide. Detected concentrations were normal. Results are discussed in Section 5.2 and provided in Appendix E.

1.3.5 Ambient Air Monitoring (24-hour) §1150.1 (e)5

Four ambient air samplers were used to collect upwind (south) and downwind (north) samples on April 30, 2004. Two ambient air samplers were positioned upwind at the landfill property boundary and two downwind at the landfill property boundary (Figure 1). Low concentrations of methane and toluene were detected upwind and downwind of the site. Is the data consistent with previous results does it exceed the intergarted surface level. Results are discussed in Section 6.2 and field and laboratory data from ambient air monitoring are included in Appendix F.

1.3.6 SCAQMD Rule 431.1 Sulfur Monitoring

Monitoring for total reduced sulfur compounds (TRS) is conducted in accordance with the tier methodology described in the Alternative Monitoring Plan for SCAQMD Rule 431.1, Bradley Landfill, dated April 1, 2003, Application Number 267044. The table below presents the tiered approach, which includes monitoring with bolometric tubes and the collection of a ten-liter bag sample in a Tedlar bag from each LFG Flare and gas plant inlet location. The Bradley Landfill is currently designated with a Tier I Action level.

Action Level	AQMD Modified Tiers	Sampling Requirement
Tier I	TS < 100 ppm	-Quarterly using Method 307-91 -Monthly using TUBE
Tier II	100 ppm ≤ TS <120 ppm	-Monthly using Method 307-91 -Weekly using TUBE
Tier III	120 ppm < TS <130 ppm	-Weekly using Method 307-91 -Daily using TUBE
Tier IV	TS > 130 ppm	-Potential Rule 431.1 Violation -Inform AQMD immediately following R430 Breakdown Provisions -Daily using Method 307-91

Collected samples are analyzed within 24 hours in accordance with SCAQMD Method 307-91. A detailed discussion of the sulfur content is discussed in Section 5.2

Monthly H_2S sampling was conducted on April 5, May 27, and June 23, 2004. Samples were collected in 10-liter tedlar bags and were sent to AtmAA Laboratory for testing as required by Rule 431.1. **Analytical results are presented in Appendix E.**

Table 1-1 Sulfur Monitoring Results				
Date	Compressor (Gas Sales)	Flare 1 H_2S concentration (ppmv)	Flare 2 H_2S concentration (ppmv)	Flare 3 H_2S concentration (ppmv)
4/5/04	51	50	29	14
5/27/04	59.9	16.8	40.2	56
6/23/04	60	49.37	38.4	24.4

1.3.7 Recent Landfill Activity

Landfill operations limited integrated and instantaneous surface emission monitoring. Instantaneous and integrated surface emissions monitoring could not be conducted in grids where active filling was taking place. These areas are shown on Figure 1. In April 2004, active filling locations included Grids 58, 59, 65, 66, 68, 72 and 73. Active filling locations in May 2004, included Grids, 50, 53, 57, 64, 67 and 71. In June 2004, active filling locations included Grids 46, 48, 51 and 54.

Grid C monitoring is currently performed on a quarterly basis and the results are presented in Table 3-1.

2 SUBSURFACE PERIMETER PROBE MONITORING §1150.1(e)1

2.1 Subsurface Perimeter Probe Monitoring Protocol

Subsurface perimeter probe monitoring was performed in April, May, and June, 2004. Monthly gas samples are collected from perimeter probes yielding the highest field obtained TOC concentrations in percent by volume, measured as methane. Locations of the subsurface perimeter monitoring probes are shown on Figure 1, Surface Emissions Monitoring Site Plan.

Alternative monitoring procedures were used in the area of perimeter probe E-8D. These procedures include monitoring of the probes and performing surface emission monitoring of Grid 31-D, as specified in the Rule 1150.1 Compliance Plan for Bradley Landfill. The alternative procedures are implemented when TOC concentrations meet or exceed five (5) percent by volume, measured as methane.

Static pressure, in inches of water column, was measured prior to evacuating each probe. Probes were evacuated at a continuous rate until a stable methane concentration was observed. During the month of April, a calibrated GEM-500 Gas Extraction Monitor was used to measure methane by percent volume, methane by percent of LEL, oxygen by percent volume, carbon dioxide by percent volume, balance gas (nitrogen) by percent volume and static pressure in inches of water column. During the months of May and June, a GEM-2000 Gas Extraction Monitor was used to perform perimeter probe monitoring.

2.2 Subsurface Perimeter Probe Monitoring Results

Perimeter probes with the highest field-obtained TOC concentrations of methane for each month were selected to be sampled for laboratory analysis TOC as methane. On April 27 and May 31, methane was detected in Probe E-8D at 26.7 and 27.8 percent, respectively. Since methane was not detected at other probes in April and May, Tedlar bag samples were collected from E-8D. A TOC concentration of 32.4 percent by volume, measured as methane, for probe E-8D was obtained in the field on June 24, 2004. No sample was collected from probe E-8D in June due to Tedlar bag availability. Laboratory analysis of gas from this probe results in fairly consistent concentrations of TOC as methane. For example, July 2004 TOC concentrations were 38.4% methane. All other probe readings for the quarter, with the exception of probe E-8D, were 0% methane, which did not

exceed the 5% methane in perimeter probes. Field and laboratory data for perimeter probe monitoring is provided in Appendix B.

Perimeter probes that were selected to be samples, based on the highest field-obtained TOC concentrations for each month are listed below:

Table 2-1
Perimeter Probe Sampling Results

Month	Probe #	Field TOC Concentration (%)	Lab TOC Concentration (%)
Apr-04	E-8D	26.7	18.0
May-04	E-8D	27.8	23.2
Jun-04	E-8D	32.8	**
Jul-04	E-8D	45.0	38.4

** No sample was collected from Probe E-8D due to Tedlar bag availability.

3 INTEGRATED SURFACE EMISSION SAMPLING§1150.1(e)2

3.1 Integrated Surface Emission Sampling Protocol

Second Quarter, 2004, integrated surface emission monitoring and sampling was conducted on April 27 and 29, 2004. Protocols followed were pursuant to SCAQMD's Guidelines for Implementation of Rule 1150.1.

Prior to sampling, the landfill surface was divided into approximate 50,000 square-foot grids with the majority of the grids having dimensions 100 feet by 500 feet. Figure 3, Integrated Surface Grids Location Map, shows the location of each grid.

Integrated surface sampling (ISS) equipment, field protocol, and QA procedures used in this program were derived from the SCAQMD Guidelines for Implementation of Rule 1150.1, in accordance with the compliance plan for the Landfill. An RES technician sampled each grid using the walk pattern and collection rate specified in the guidelines. Each portable Integrated Sampler is comprised of a Tedlar bag, DC pump, and a calibrated flow controller. Each bag sampler is calibrated by a film (bubble meter) calibration method. Each Tedlar bag sample was purged three times with ultra-pure nitrogen before sampling and enclosed in a light-sealed box after sampling. Analyses were performed within 72 hours after sampling was conducted. Tedlar bag QA/QC checklist is in Appendix G.

Wind monitoring data recorded at the on site wind station were reduced to calculate 10-minute average wind speeds for those times when sampling was performed. Each integrated grid sample was collected over a continuous 25-minute period.

RES Environmental, Inc. personnel walked grids at approximate 25-foot intervals for a total of 2,600 linear feet in a period of 25 minutes. The integrated sampler wand was extended to no greater than one inch above the landfill surface. Integrated surface samples were collected at an approximate rate of 333 cubic centimeters per minute (cc/m). The technicians recorded the starting and ending time of each grid traverse, along with the average rotameter flow rate and the prevailing wind speed and direction. An OVA was used to measure the TOC concentration (in ppm, as methane) from each of the 10-liter bag samples collected from the pre-numbered grids.

The landfill sampling grids are divided into types A, B, and C. All type grids are sampled quarterly Type A surface grids have no exclusions from sampling and sampling is conducted in accordance with Rule 1150.1. Type B surface grids contain steep slopes or steep slopes and dense vegetation. Sampling of Type B grids consists of sampling the toe and top of 128 and 130. Grids 121 and 122 each defined as a Type "B" Grid, has been re-designated as a type "A" Grid due to the additional refuse that has been put in place. Vacuum readings from all gas extraction wells located within Type B grids are recorded monthly and included in the quarterly report. Type C grids are located in the area of active recycling operations. Sampling of Type C surface

grids are performed quarterly, during the Integrated sampling event. Sampling of Type C surface grids consists of sampling a course of 2,600 linear feet but not less than 1,900 linear feet in each grid for a continuous 25-minute period, excluding stockpiles, stored equipment and recycling equipment. Vacuum readings from all gas extraction wells located within Type C active recycling grids are recorded monthly and included in the quarterly report. Vacuum readings recorded in the second quarter from the extraction wells located in Type B and C Grids are presented in Table 3-1.

Due to active landfill operations, integrated landfill surface measurements were not obtained for Grids 58, 59, 65, 66, 68, and 72 on April 29, 2004.

Tedlar bag samples from grids 86 and 88 were sent to AtmAA, Inc., for further analysis of toxic air contaminants, methane, and TGNMOs. Technicians responsible for transporting the integrated samples recorded pertinent information on a chain-of custody form included in Appendix C, Integrated Surface Emission Sampling. Additional personnel, including lab technicians, also recorded their signatures on the chain-of-custody form.

Integrated surface samples were collected when the average wind speed was less than five miles per hour and the instantaneous wind speed was less than ten miles per hour. Integrated samples were not collected within 72 hours of a rainstorm. Wind speed and direction measurements are tracked on the chart included in Appendix C, Integrated Surface Emission Sampling. Weather data taken during integrated monitoring which can be found in Appendix C.

3.2 Integrated Surface Sampling Results

The TOC concentration collected from each grid is listed in Table 3-1, Integrated Surface Sampling Field Summary. Field data sheets are presented in Appendix C. All of the integrated TOC readings were within compliance limits, as set forth by SCAQMD Rule 1150.1. Typically, the two samples having the highest field TOC concentrations are sent to the laboratory for further analysis. The TOC background reading was 5.0 ppm. During surface emissions monitoring, TOC concentrations above background were no more than 2 ppm. In some grids, observed readings were 1 to 2 ppm below background. Samples from grids 86 and 88 were randomly selected for laboratory analysis.

3.3 Integrated Surface Sampling Laboratory Results

Integrated samples were collected from Grid Nos. 86 and 88 and were transported to AtmAA, Inc. on April 30, 2004 for further analysis. Table 3-2, Integrated Surface Sampling, Laboratory Summary, lists the laboratory analysis methods and results.

Laboratory analysis by method TO-15 of the sample from Grid 86 (Lab Sample ID 01214-17), detected benzene, dichloromethane, carbon tetrachloride, toluene, m, p-xylenes, and o-xylene. The TGNMO concentration was 1.50 ppm and the methane concentration was 1.81 ppm.

Laboratory analysis by method TO-15 of the sample from Grid 88 (Lab Sample ID 01214-16), detected benzene, dichloromethane, carbon tetrachloride, toluene, m, p-xylenes, and o-xylene. The TGNMO concentration was 1.09 ppm and the methane concentration was 1.90 ppm.

Table 3-1
Integrated Surface Sampling, Field Summary
Bradley Landfill and Recycling Center
Sun Valley, California

INSTRUMENT OVA 128/88
88-ISS Packs

DATE OF SAMPLING: 4/27/04 & 4/29/04
TECHNICIAN: RES Environmental Inc.

Grid I.D.	TOC CONCENTRATION (ppmv)	Sample Date	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
1	5	4/27/2004	N/A			
2	5	4/27/2004	N/A			
3	6	4/27/2004	N/A			
4	5	4/27/2004	N/A			
5	6	4/27/2004	N/A			
6	5	4/27/2004	N/A			
7	5	4/27/2004	N/A			
8	4	4/27/2004	N/A			
9	6	4/27/2004	N/A			
10	**5**	**4/27/2004**	**N/A**			
11	**5**	**4/29/2004**	**N/A**			
12	**5**	**4/29/2004**	**N/A**			
13	**5**	**4/29/2004**	**N/A**			
14	4	4/29/2004	N/A			
15	5	4/29/2004	N/A			
16	5	4/29/2004	N/A			
17	5	4/29/2004	N/A			
18	5	4/29/2004	N/A			
19	4	4/29/2004	N/A			
20	5	4/27/2004	N/A			
21	5	4/27/2004	N/A			
22	5	4/27/2004	N/A			
23	5	4/27/2004	N/A			
24	6	4/27/2004	N/A			
25	4	4/29/2004	N/A			
26	5	4/29/2004	N/A			
27	5	4/29/2004	N/A			
28	4	4/29/2004	N/A			
29	4	4/29/2004	N/A			
30	5	4/29/2004	N/A			
31	5	4/27/2004	N/A			
32	5	4/27/2004	N/A			
33	5	4/27/2004	N/A			
34	5	4/27/2004	N/A			
35	5	4/27/2004	N/A			
36	4	4/27/2004	N/A			
37	5	4/27/2004	N/A			
38	5	4/27/2004	N/A			
39	5	4/27/2004	N/A			
40	4	4/27/2004	N/A			
41	5	4/27/2004	N/A			
42	4	4/27/2004	N/A			
43	4	4/27/2004	N/A			
44	5	4/27/2004	N/A			
45	4	4/27/2004	N/A			
46	5	4/27/2004	N/A			
47	5	4/27/2004	N/A			
48	4	4/27/2004	N/A			
49	4	4/27/2004	N/A			
50	5	4/27/2004	N/A			
51	4	4/27/2004	N/A			
52	5	4/27/2004	N/A			
53	5	4/27/2004	N/A			
54	5	4/27/2004	N/A			
55	5	4/27/2004	N/A			
56	4	4/27/2004	N/A			

Table 3-1
Integrated Surface Sampling, Field Summary
Bradley Landfill and Recycling Center
Sun Valley, California

INSTRUMENT OVA 128/88
88-ISS Packs

DATE OF SAMPLING: 4/27/04 & 4/29/04
TECHNICIAN: RES Environmental Inc.

Grid I.D.	TOC CONCENTRATION (ppmv)	Sample Date	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
57	5	4/27/2004	N/A			
60	5	4/27/2004	N/A			
61	4	4/27/2004	N/A			
62	5	4/29/2004	N/A			
63	4	4/27/2004	N/A			
64	5	4/27/2004	N/A			
67	5	4/27/2004	N/A			
69	6	4/27/2004	N/A			
70	5	4/27/2004	N/A			
71	4	4/27/2004	N/A			
73	5	4/27/2004	N/A			
74	5	4/27/2004	N/A			
75	5	4/27/2004	N/A			
76	5	4/27/2004	N/A			
77	5	4/27/2004	N/A			
78	5	4/29/2004	N/A			
79	5	4/29/2004	N/A			
80	6	4/27/2004	N/A			
81	4	4/29/2004	N/A			
82	7	4/29/2004	N/A			
83	5	4/29/2004	N/A			
84	5	4/29/2004	N/A			
85	4	4/29/2004	N/A			
86*	3	4/29/2004	N/A			
87	5	4/29/2004	N/A			
88*	4	4/29/2004	N/A			
89	5	4/29/2004	N/A			
90	4	4/29/2004	N/A			
91	4	4/29/2004	N/A			
92	3	4/29/2004	N/A			
93	5	4/29/2004	N/A			
94	5	4/29/2004	N/A			
95	6	4/29/2004	N/A			
96	5	4/29/2004	N/A			
97	4	4/29/2004	N/A			
98	6	4/29/2004	N/A			
99	5	4/29/2004	N/A			
100	3	4/29/2004	N/A			
101	3	4/29/2004	N/A			
102	5	4/29/2004	N/A			
103	5	4/29/2004	N/A			
104	4	4/29/2004	N/A			
105	5	4/29/2004	N/A			
106	6	4/29/2004	N/A			
107	5	4/29/2004	N/A			
108	3	4/29/2004	N/A			
109	4	4/29/2004	N/A			
110	5	4/29/2004	N/A			
111	6	4/29/2004	N/A			
112	5	4/29/2004	N/A			
113	3	4/29/2004	N/A			
114	4	4/29/2004	N/A			
115	5	4/29/2004	N/A			
116	3	4/29/2004	N/A			
117	5	4/29/2004	N/A			
118	3	4/29/2004	N/A			

Table 3-1
Integrated Surface Sampling, Field Summary
Bradley Landfill and Recycling Center
Sun Valley, California

INSTRUMENT OVA 128/88
88-ISS Packs

DATE OF SAMPLING: 4/27/04 & 4/29/04
TECHNICIAN: RES Environmental Inc.

Grid I.D.	TOC CONCENTRATION (ppmv)	Sample Date	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
119	3	4/29/2004	N/A			
120	3	4/29/2004	N/A			
121	4	4/29/2004	N/A			
122	4	4/29/2004	N/A			
123	5	4/29/2004	N/A			
124	4	4/29/2004	N/A			
125	4	4/29/2004	N/A			
126	3	4/29/2004	N/A			
127	3	4/29/2004	N/A			
128	6	4/29/2004	N/A			
129	5	4/29/2004	N/A			
130	4	4/29/2004	N/A			
131	4	4/29/2004	N/A			
132	4	4/29/2004	N/A			
Active Dumping Areas						
58	N/A	4/29/2004	N/A			
65	N/A	4/29/2004	N/A			
68	N/A	4/29/2004	N/A			
72	N/A	4/29/2004	N/A			
59	N/A	4/29/2004	N/A			
66	N/A	4/29/2004	N/A			

* = Additional 10-liter Tedlar bag samples from Grids 86 and 88 were sent to the lab for further analysis.

Table 3-2
Integrated Surface Sampling Laboratory Summary
Bradley Landfill & Recycling Center (BLRC)
April 30, 2004

SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples			
Compound	**Sample ISS Grid 88 Results (ppbV)**	**Sample ISS Grid 86 Results (ppbV)**	**Reporting Limit (ppbV)**
Hydrogen Sulfide	<50	<50	50
Benzene	0.24	0.28	1.6
Benzyl Chloride	<0.5	<0.5	0.97
Carbon Tetrachloride	0.12	0.12	0.80
Chlorobenzene	<0.1	<0.1	1.1
Chloroform	<0.1	<0.1	1.0
1,1-Dichloroethane	<0.1	<0.1	1.2
1,1-Dichloroethene	<0.1	<0.1	1.3
1,2-Dibromoethane	<0.1	<0.1	0.65
Dichlorobenzenes(1)	<1.1	<1.1	0.83
Dichloromethane	0.14	0.22	<0.1
1,2-Dichloroethane	<0.1	<0.1	1.2
1,1,1-Trichloroethane	<0.1	<0.1	0.92
Trichloroethene	<0.1	<0.1	1.4
Perchloroethene	<0.1	<0.1	<0.1
Toluene	1.86	0.96	1.3
Total Xylenes*	0.56	0.58	1.2
Trichloroethene	ND	ND	0.93
Vinyl Chloride	<0.1	<0.1	2.0

SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples			
Compound	**Sample ISS Grid 88 Results (ppmV)**	**Sample ISS 86 Results (ppmV)**	**Reporting Limit (ppmV)**
Methane	1.90	1.81	0.5
Total Non-Methane Organics (as methane)	1.09	1.50	1.0

< Not detected at or above the method detection limit.
*Total xylenes reported includes the sum of the detected concentrations of m-& p-xylenes and o-xylenes.
(1) total amount containing meta, para, and ortho isomers

Table 3-3
LFG Well Data with .2
"B" and "C" Monitoring Grids
Second Quarter 2004
Bradley Landfill and Recycling Center
Sun Valley, California

Device ID	Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Stat Press In. H20	Temperature (DegF)	Flow (Scfm)	Comments	Grid Type
BR000001	4/7/04 9:07 AM	32.3	30.4	0.1	37.2	-55	138	20	25% Open	C
BR000001	5/18/04 2:35 PM	40.2	5.5	0.5	53.8	-6.1	102	19	Normal	C
BR000001	6/8/04 8:29 AM	42.4	31.9	0	25.7	-18.9	134	31	Open	C
BR000002	4/7/04 9:15 AM	27.8	30	0	42.2	-3.2	117	15	Flow Decreased	C
BR000002	5/12/04 2:40 PM	40.6	35.5	0.1	23.8	-7.4	77	24	Open	C
BR000002	6/8/04 8:38 AM	44.6	34.9	0	20.5	-2.1	104	8	Open	C
BR000003	4/7/03 9:19 AM	0.5	6.6	10.4	82.5	0	144	0	Open For Sample	C
BR000003	5/27/04 3:43 PM	6.3	11.1	8.7	73.9	-12.2	80	3	No Changes made	C
BR000003	6/22/04 2:35 PM	4.8	10.4	8.6	76.2	-1.1	90		Closed	C
BR000004	4/7/04 9:34 AM	29	25.7	0.5	44.8	-5.4	116	1	25% Open	C
BR000004	5/27/04 3:53 PM	30.5	26.5	0.2	42.8	-28.2	109	0	3/4 Open	C
BR000004	6/22/04 2:28 PM	27.3	26.8	0.2	45.7	-12.7	83	0	Open	C
BR000005	4/7/04 9:40 AM	0.3	6.3	5.8	87.6	0	70	0	Open For Sample	C
BR000005	5/27/04 4:02 PM	8.5	11.2	0.9	79.4	-2	100	2	Full Open	C
BR000005	6/8/04 10:06 AM	1.1	9.2	5.6	84.1	-24.3	102	9	Open	C
BR000006	4/7/04 9:42 AM	0.8	2.8	15.8	80.6	0	70	0	Open For Sample	C
BR000006	5/12/04 3:17 PM	9.7	13.2	4.7	72.4	-0.1	81		Open	C
BR000006	6/8/04 10:13 AM	8.2	19.1	0.5	72.2	-24.6	108	4	Open	C
BR000007	4/7/04 9:50 AM	9.2	19.5	3	68.3	0	72	0	Open For Sample	C
BR000007	5/13/04 10:01 AM	6.8	9.8	11.9	71.5	-9.6	81	0	Valve Closed	C
BR000007	6/8/04 10:25 AM	10	22.1	0.5	67.4	-0.6	80	0	Offline	C
BR000008	4/7/04 9:52 AM	0	1.6	18.7	79.7	0	72	0	Open For Sample	C
BR000008	5/13/04 10:03 AM	0.1	0.5	19.9	79.5	-0.3	80	0	Offline	C
BR000008	6/8/04 10:29 AM	0	0	20.4	79.6	-0.3	70	0	Offline	C
BR000009	4/7/04 9:54 AM	28.9	31.2	0.4	39.5	-7.8	116	6	25% Open	C
BR000009	5/13/04 10:08 AM	29.3	31	0.1	39.6	-4.9	79	6	(1) turn open	C
BR000009	6/8/04 10:35 AM	29.9	32.1	0	38	-3.9	112	6	Open	C
BR000010	4/7/04 10:46 AM	30.5	32.1	0.5	36.9	-12	124	29	25% Open	C
BR000010	5/13/04 11:18 AM	30.4	30.9	0.3	38.4	-13.3	124	0	25% Open	C
BR000010	6/8/04 11:30 AM	36.2	33.5	0	30.3	-19.7	128	0	Offline	C
BR000011	4/9/04 7:58 AM	42.6	35.7	0.7	21	-7.1	87	2	Flow Increased	C
BR000011	5/13/04 11:30 AM	28.1	28.7	0.2	43	-5.7	115		Open	C
BR000011	6/8/04 11:55 AM	44.3	35.1	0.1	20.5	-4.9	120	1	Open	C

just these wells

Table 3-3
LFG Well Data
"B" and "C" Monitoring Grids
Second Quarter 2004
Bradley Landfill and Recycling Center
Sun Valley, California

Device ID	Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Stat Press In. H20	Temperature (DegF)	Flow (Scfm)	Comments	Grid Type
BR000014	4/7/04 9:23 AM	16.2	20.7	0.1	63	-0.6	90	1	Cracked	C
BR000014	5/26/04 2:15 PM	24.1	24.3	0	51.6	-2	100	1	Open	C
BR000014	6/8/04 8:48 AM	25.8	24.1	0	50.1	-21.1	120	4	Open	C
BR000015	4/7/04 9:26 AM	14.7	18.4	0	66.9	-0.8	80	0	Cracked	C
BR000015	5/27/04 3:49 PM	23.3	22.9	0.2	53.6	-24.8	90	1	1/2 Open	C
BR000015	6/8/04 9:40 AM	15.2	19.5	0	65.3	-13.3	88	0	Offline	C
BR000016	4/7/04 9:29 AM	25.4	24.9	0.4	49.3	-7.8	110	2	25% Open	C
BR000016	5/12/04 3:07 PM	33.8	27.8	0.1	38.3	-2.1	81	18	1/4 Closed	C
BR000016	6/8/04 9:47 AM	40.9	31.2	0	27.9	-8.8	75	6	Open	C
BR000017	4/7/04 9:47 AM	19.6	24.3	0.7	55.4	-5	106	15	25% Open	C
BR000017	5/13/04 9:56 AM	24.7	25.5	0.3	49.5	-3.9	86	24	Open	C
BR000017	6/8/04 10:19 AM	19.6	25.5	0.1	54.8	-12.5	80	28	Open	C
BR000018	4/7/04 9:38 AM	23.6	21.5	2.6	52.3	-0.8	96	0	Cracked	C
BR000018	5/27/04 3:57 PM	23.7	20.1	4.8	51.4	-19.5	109	0	1/4 Open	C
BR000018	6/22/04 2:47 PM	16.2	18.7	2.4	62.7	-0.5	93		Offline	C
BR000019	4/23/04 9:29 AM	37.6	32.3	0.6	29.5	-14.9	126	88	Max Flow	C
BR000019	5/13/04 10:52 AM	39.9	32.7	0.4	27	-16.4	123	117	Max Open	C
BR000019	6/8/04 10:56 AM	39.7	33.5	0.2	26.6	-14.4	123	102	Open	C
BR000020	4/7/04 10:09 AM	39.7	30.1	1.9	28.3	-4.1	95	18	Flow Increased	C
BR000020	5/13/04 10:49 AM	33.6	26.7	0.9	38.8	-10.7	94	21	Open	C
BR000020	6/8/04 10:52 AM	28.6	26.6	0.5	44.3	-8.5	96	18	Open	C
BR000021	4/7/04 10:04 AM	23.4	25.7	0.4	50.5	-2.2	125	7	Cracked	C
BR000021	5/13/04 10:46 AM	30.2	26.3	0.3	43.2	-2.4	81	5	Valve Closed	C
BR000021	6/8/04 10:47 AM	25.5	23	2.7	48.8	-1.4	80	0	Open	C
BR000022	4/7/04 9:59 AM	21.8	19.4	8.2	50.6	-0.4	119	0	Flow Decreased	C
BR000022	5/13/04 10:40 AM	28.6	20	9.4	42	-0.9	81		Open	C
BR000022	6/8/04 10:40 AM	28.4	23	8.3	40.3	-1	90	8	Open	C
BR000025	4/9/04 7:52 AM	52.2	38.3	0.1	9.4	-17.5	112	110	Max Flow	C
BR000025	5/13/04 11:40 AM	52.7	37.4	0.3	9.6	-5.9	110	0	Open	C
BR000025	6/14/04 10:10 AM	78.3	21.3	0.3	0.1	-0.9	100	0	Open	C
BR000026	4/7/04 10:37 AM	43.2	37.2	0.4	19.2	-19.6	122	42	Max Flow	C
BR000026	5/31/04 3:12 PM	47.7	35.4	0.7	16.2	-26	120	0	Full Open	C
BR000026	6/8/04 11:20 AM	46.8	37.4	0.1	15.7	-19.7	120	0	Open	C

Table 3-3
LFG Well Data
"B" and "C" Monitoring Grids
Second Quarter 2004
Bradley Landfill and Recycling Center
Sun Valley, California

Device ID	Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Stat Press In. H20	Temperature (DegF)	Flow (Scfm)	Comments	Grid Type
BR000027	4/7/04 10:40 AM	26.9	30.1	0.4	42.6	-8.7	118	15	Flow Decreased	C
BR000027	5/13/04 11:14 AM	35.8	31.9	0.3	32	-2.9	112	0	Open	C
BR000027	6/8/04 11:25 AM	39.8	33	1.6	25.6	-1.9	80	2	Offline	C
BR000028	4/7/04 10:33 AM	19.6	27	0.3	53.1	-1.9	110	7	Cracked	C
BR000028	5/13/04 11:21 AM	16.5	22.6	0.3	60.6	-2.3	90	0	Offline	C
BR000028	6/8/04 11:42 AM	19.4	26.5	0.1	54	-2.5	80	0	Offline	C
BR000029	4/7/04 11:06 AM	0	0	20.1	79.9	0	60	0	Offline	C
BR000029	5/24/04 1:25 PM	0	4.6	14.4	81	-6.5	3.778	15	Off Line	C
BR000029	6/3/04 2:18 PM	0	2.4	17.2	80.4	0	118	1	Open	C
BR000031	4/9/04 8:42 AM	0.3	3.4	16.4	79.9	0	70	0	Open For Sample	C
BR000031	5/24/04 3:40 PM	3.6	12.9	7.6	75.9	-4.4	5.984	0	Open For Sample	C
BR000031	6/14/04 9:49 AM	0	0	20.5	79.5	-0.4	80	0	Offline	C
BR000033	4/9/04 8:35 AM	14.9	24	0.5	60.6	0	125	0	Open for Sample	C
BR000033	5/17/04 5:22 PM	19.9	26.6	0.1	53.4	-3.5	81	0	Open For Sample	C
BR000033	6/14/04 11:01 AM	18.8	23.3	1.3	56.6	-1.3	121	0	Online	C
BR000034	4/9/04 8:31 AM	5.7	21.3	0	73	0	90	0	Open For Sample	C
BR000034	5/27/04 4:20 PM	9.4	16.7	6	67.9	0	80	0	No Thermometer	C
BR000034	6/22/04 3:00 PM	8	18.4	2.4	71.2	-2.2	0	0	Offline	C
BR000036	4/9/04 9:35 AM	2.4	11.5	8.4	77.7	0	111	0	Open For Sample	C
BR000036	5/17/04 3:14 PM	5.2	16.1	2.8	75.9	-5.9	90	2	Open For Sample	C
BR000036	6/3/04 10:13 AM	0	0	20.3	79.7	0.7	70		Open	C
BR000039	4/9/04 9:25 AM	3.1	16.3	3.7	76.9	0	80	0	Open For Sample	B
BR000039	5/17/04 4:59 PM	7.2	20	1	71.8	-6.9	80		Open For Sample	B
BR000039	6/3/04 9:53 AM	0	0.1	20.3	79.6	0.7	96		Open	B
BR000084	4/7/04 9:11 AM	53.6	39.9	0	6.5	-13.1	136	30	Max Flow	C
BR000084	5/12/04 2:37 PM	58.6	41	0.2	0.2	-12	84	43	Open	C
BR000084	6/8/04 8:34 AM	73.4	26.5	0	0.1	-13.4	110	43	Open	C
BR00023D	4/7/04 10:15 AM	34.5	31.4	0.9	33.2	-14.7	126	45	Max Flow	C
BR00023D	5/13/04 11:00	38.7	32.5	0.2	28.6	-14	90	0	Open	C
BR00023D	6/8/04 11:04 AM	38.3	33.1	0	28.6	-14.8	110	0	Open	C
BR00023S	4/7/04 10:13 AM	47.9	37.9	0.4	13.8	-13	120	37	Max Flow	C
BR00023S	5/13/04 10:58 AM	50.2	37.7	0.4	11.7	-13.5	90	0	Open	C
BR00023S	6/8/04 11:00 AM	48.4	37.8	0	13.8	-11.9	110	0	Open	C

Table 3-3
LFG Well Data
"B" and "C" Monitoring Grids
Second Quarter 2004
Bradley Landfill and Recycling Center
Sun Valley, California

Device ID	Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Stat Press In. H20	Temperature (DegF)	Flow (Scfm)	Comments	Grid Type
BR00038D	4/9/04 9:23 AM	9.2	20.7	0.7	69.4	0	80	0	Open For Sample	C
BR00038D	5/17/04 2:47 PM	3.9	19.9	0.1	76.1	-1.5	90	0	Open For Sample	C
BR00038D	6/3/04 9:56 AM	0	0	20.3	79.7	0.6	83	0	Offline	C
BR00105D	4/7/04 10:30 AM	49.8	37	2.4	10.8	-11.1	116	39	Max Flow	C
BR00105D	5/13/04 11:07 AM	51.3	36.2	2.7	9.8	-11.6	100	0	Open	C
BR00105D	6/8/04 11:15 AM	49.6	36.1	3.5	10.8	-10	80	0	Offline	C
BR00105S	4/7/04 10:20 AM	33.4	32.8	0.1	33.7	-9.1	122	35	Maxflow	C
BR00105S	5/13/04 11:04 AM	34.1	32.2	0.2	33.5	-10.7	95	0	Open	C
BR00105S	6/8/04 11:10 AM	33.8	32.7	0	33.5	-9.2	145	0	Offline	C
BR00106D	4/7/04 10:48 AM	0	0.6	20	79.4	0	116	0	Cannot Reach	C
BR00106D	5/13/04 11:27 AM	55.7	40.7	0.4	3.2	-20.6	116	0	Valve open max	C
BR00106D	6/8/04 11:51 AM	54.2	41.1	0.2	4.5	-17.7	118	0	Open	C
BR00106S	4/7/04 10:48 AM	0	0.8	19.9	79.3	0	116	0	Cannot Reach	C
BR00106S	5/13/04 11:25 AM	20.9	27	0.2	51.9	-3.2	90	48	1/2 Open	C
BR00106S	6/8/04 11:48 AM	19	27.7	0.1	53.2	-3	100	48	Open	C
BR0EW100	4/7/04 10:43 AM	15.1	24.6	0.4	59.9	-2	100	0	Cracked	C
BR0EW100	5/13/04 11:48 AM	20.3	24.9	0.5	54.3	-4.3	109	28	Open	C
BR0EW100	6/8/04 11:36 AM	17.6	24.9	0.8	56.7	-4.7	100	27	Open	C
BR0EW101	5/13/04 11:44 AM	0.2	7	11.4	81.4	-1	113	14	Open	C
BR0EW101	6/16/04 3:20 PM	0	9.3	9.3	81.4	-0.4	101	193	Open	C
BR0EW101	4/7/04 10:51 AM	0	10.2	8.3	81.5	0	156	0	Offline	C

4 INSTANTANEOUS SURFACE EMISSION MONITORING§1150.1(e)3

4.1 Instantaneous Surface Emission Monitoring Protocol

Quarterly instantaneous surface emission monitoring was conducted in April, May, and June, 2004 by RES Inc. personnel and consisted of monitoring the landfill surface for the presence of landfill gas (LFG) surface emissions. Procedures described in the SCAQMD Guidelines for Implementation of Rule 1150.1 were followed.

Instantaneous Surface Monitoring (ISM) was performed using procedures and equipment described in the SCAQMD Guidelines for Implementation of Rule 1150.1, consistent with the compliance plan for the Landfill. A portable flame ionization detector (FID), which meets or exceeds all guideline specifications was used to obtain instantaneous measurements of total organic compounds (TOC) concentrations immediately above the surface of the grids. Calibrations were performed on the OVA equipment using factory specifications. While traversing the disposal area, the detector probe was held within three inches of the landfill surface to obtain the readings. A surface inspection was also performed during monitoring to identify potential cracks in the landfill cover.

Using the OVA, RES Environmental, Inc. personnel walked a pattern across the landfill surface consisting of linear traverses approximately 100 feet apart at an approximate rate of 100 to 110 feet per minute. TOC measurements were recorded at approximately every 100 linear feet. While monitoring, the OVA wand and funnel assembly was held no further than one inch above the landfill surface.

In addition to walking the traverses, the OVA was used by EMCON/OWT personnel to measure TOC concentrations at landfill surface fissures, along the refuse/natural soil interface, and at corrugated metal pipes, gas extraction wells and other points visually identified as areas potentially having repeatable TOC concentrations greater than 500 ppm.

The landfill sampling grids are divided into types A, B, and C. Type A surface grids have no exclusions from sampling and sampling is conducted in accordance with Rule 1150.1. Type B surface grids contain steep slopes or steep slopes and dense vegetation. Sampling of Type B grids consists of sampling the toe and top of Grids 128 and 130. Vacuum readings from gas extraction well 39, located within a Type B grid is recorded monthly and included in the quarterly report. Twenty-two Type C grids are located in the area of active recycling operations. Sampling of Type C surface grids consists of sampling a course of 2,600 linear feet but not less than 1,900 linear feet in each grid for a continuous 25-minute period, excluding stockpiles, stored equipment and recycling equipment. Vacuum readings from all gas extraction wells located within Type C active recycling grids are recorded monthly and included in the quarterly report. Vacuum readings recorded in the second quarter from the extraction wells located within Type B and C grids are presented in Table 3-3.

Areas that were not monitored due to landfill operation are shown on Figure 1.

Wind speed and direction were measured using a Climatronics portable meteorological station mounted on the roof of the main office building at the landfill described in Section 7, Field Instrumentation and Equipment Specifications. Measurements were recorded on a continuous strip chart recorder. The wind speed and direction monitor was erected in the central portion of the site away from canyon walls and obstructions, at an approximate elevation of 1300 feet above mean sea level.

4.2 Instantaneous Surface Emission Monitoring Results

Monitoring measurements obtained during the months of April, May, and June exceeded 500 ppm as methane in Grids 37, 105, 115, 112, 23, 24, 59, 37, 131, 127, 124, 123, 118, 104, 5, and 22. Grids with surface emissions exceeding 500 ppm are shown in Table 4-2. All other grids were below 500 ppm TOC as methane.

Recorded concentrations of TOC as methane ranged from 0.0 to 99,995.0 ppm above background. In accordance with SCAQMD Rule 1150.1 regarding detecting TOC concentrations exceeding 500 ppmv, each of these grids were re-sampled within 10 calendar days of the original detection. A summary of the grids that were re-monitored due to TOC readings above 500 ppmv is presented in Table 4-2. Field data sheets are presented in Appendix D. Figures 1, 2, and 3 show grids where surface emissions exceeded 500 ppm TOC as methane during instantaneous monitoring. During the period of instantaneous monitoring, the wind speed average was below 5 miles per hour and the instantaneous wind speed was below 10 miles per hour.

Table 4-1
Instantaneous Emission Monitoring Results

Monitoring Date	Grid #	TOC as Methane (ppm)	Re-monitored Reading TOC as methane (ppm)	Second Re-monitored Reading TOC as methane (ppm)
4/22/04	105	2,000	105	n/a
4/22/04	115	3,000	115	n/a
4/22/04	37	500	37	n/a
5/26/04	112	100,000	2,000	350
5/26/04	23	10,000	200	n/a
5/26/04	24	10,000	200	n/a
5/26/04	37	1,000	1,500	200
6/17/04	104	1,000	300	n/a
6/17/04	112	10,000	300	n/a
6/17/04	118	1,000	200	n/a

Table 4-1 Instantaneous Emission Monitoring Results				
6/17/04	123	30,000	5	n/a
6/17/04	124	100,000	5	n/a
6/17/04	127	100,000	20	n/a
6/17/04	131	100,000	5	n/a
6/17/04	22	20,000	200	n/a
6/17/04	5	500	30	n/a

Table 4-2
Instantaneous Surface Sampling, Field Summary (Remonitored Grids)
Bradley Landfill and Recycling Center
Sun Valley, California

INSTRUMENT OVA 128/88 DATE OF SAMPLING: April, May, June 2004
TECHNICIAN: RES

LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
Grid 105	2,000	4/22/2004	Repair Cover & Tune System	4/22/2004	4/29/2004	5
Grid 115	3,000	4/22/2004	Repair Cover & Tune System	4/22/2004	4/29/2004	5
Grid 37	500	4/22/2004	Repair Cover & Tune System	4/22/2004	4/27/2004	5
Grid 58	Not Sampled	4/22/2004	Active Dumping			
Grid 59	Not Sampled	4/22/2004	Active Dumping			
Grid 65	Not Sampled	4/22/2004	Active Dumping			
Grid 66	Not Sampled	4/22/2004	Active Dumping			
Grid 68	Not Sampled	4/22/2004	Active Dumping			
Grid 72	Not Sampled	4/22/2004	Active Dumping			
Grid 73	Not Sampled	4/22/2004	Active Dumping			
Grid 112	**100,000**	**5/26/2004**	**Repair Cover & Tune System**	**5/26/2004**	**6/3/2004**	**2,000**
Grid 23	**10,000**	**5/26/2004**	**Repair Cover**	**5/26/2004**	**6/3/2004**	**200**
Grid 24	**10,000**	**5/26/2004**	**Repair Cover**	**5/26/2004**	**6/3/2004**	**200**
Grid 37	**1,000**	**5/26/2004**	**Adjusted Well**	**5/26/2004**	**6/3/2004**	**1,500**
Grid 50	Not Sampled	5/26/2004	Active Dumping			
Grid 53	Not Sampled	5/26/2004	Active Dumping			
Grid 57	Not Sampled	5/26/2004	Active Dumping			
Grid 59	500	5/26/2004	Adjusted Well	5/26/2004	6/3/2004	3
Grid 64	Not Sampled	5/26/2004	Active Dumping			
Grid 67	Not Sampled	5/26/2004	Active Dumping			
Grid 71	Not Sampled	5/26/2004	Active Dumping			
Grid 112 3rd Remonitor	2,000	6/3/2004	Repaired Cover	6/3/2004	6/11/2004	350
Grid 37 3rd Remonitor	1,500	6/3/2004	Adjusted Well	6/3/2004	6/11/2004	200
Grid 104	1,000	6/17/2004	Repair Cover & Tune System	6/17/2004	6/25/2004	300
Grid 112	10,000	6/17/2004	Repair Cover & Tune System	6/17/2004	6/25/2004	300
Grid 118	1,000	6/17/2004	Repair Cover & Tune System	6/17/2004	6/25/2004	200
Grid 123	30,000	6/17/2004	Repair Cover & Tune System	6/17/2004	6/25/2004	5
Grid 124	100,000	6/17/2004	Repair Cover & Tune System	6/17/2004	6/25/2004	5
Grid 127	100,000	6/17/2004	Repair Cover & Tune System	6/17/2004	6/25/2004	20
Grid 131	100,000	6/17/2004	Repair Cover & Tune System	6/17/2004	6/25/2004	5
Grid 22	20,000	6/17/2004	Repair Cover & Tune System	6/17/2004	6/25/2004	200
Grid 46	Not Sampled	6/17/2004	Active Dumping			
Grid 48	Not Sampled	6/17/2004	Active Dumping			
Grid 5	500	6/17/2004	Repair Cover & Tune System	6/17/2004	6/25/2004	30
Grid 51	Not Sampled	6/17/2004	Active Dumping			
Grid 54	Not Sampled	6/17/2004	Active Dumping			

5 LANDFILL GAS SAMPLING §1150.1(e)4

5.1 Landfill Gas characterization Protocol

A total of four landfill gas samples were collected from the compressor inlet and from the three (3) landfill gas flares on May 27, 2004 respectively. A portable pump was used to draw the landfill gas sample into a 10-liter Tedlar Bag enclosed in a light sealed box. The landfill gas sample was collected over a continuous ten-minute period.

5.2 Landfill Gas Sample Laboratory Results

Samples BL-001 (Gas Plant), BL-002 (Flare #3), BL-003 (Flare #1), and BL-004 (Flare #2) were taken to AtmAA, Inc. on May 27, 2004. The gas samples were analyzed for toxic air contaminants, TGNMOs, fixed gases, and hydrogen sulfide. Tables 5-2, Landfill Gas Sample Laboratory Summary, gives the laboratory methods and results for these constituents. Appendix E, Landfill Gas Sampling includes the laboratory report prepared by AtmAA, Inc.

Laboratory analysis of samples BL-001, BL-002, BL-003, and BL-004 detected concentrations of the following compounds: benzene, chlorobenzene, dichlorobenzenes, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethylene, dichloromethane, perchloroethylene, toluene, trichloroehene, vinyl chloride, m,p-xylenes, and o-xylene.

Laboratory results for samples collected from the gas plant and each flare are presented in Appendix E.

5.3 SCAQMD Rule 431. Sulfur Monitoring

Sulfur content of the landfill gas (as H_2S) leaving the facility is monitored daily, except for weekends and holidays as required by PTO No. R-D229242 A/N 201385, Part 5. The gas compressor did exceed 100 ppm H_2S during the quarter using colorimetric tubes. There was one reading during the quarter of 120 ppm H_2S on 4/14/04, however based on prior readings taken the day before and day after the detected concentration appears to be an anomaly. Excluding the 120 ppm reading taken on 4/14/04 the maximum reading during the quarter was 61 ppm H_2S. See Table 5-3 for Quarterly H_2S Monitoring Results. An H_2S reading was not taken on 5/3/04 because H_2S tubes were not available.

Table 5-1 Landfill Gas Summary of Results				
Components	Gas Plant (BL-001)	Flare 1 (BL004)	Flare 2 (BL-003)	Flare 3 (BL-002)
TGNMO	11,200 ppmv	8,050 ppmv	2,750 ppmv	4,950 ppmv
Hydrogen Sulfide	59.9 ppmv	56.0 ppmv	40.2 ppmv	16.8 ppmv
Methane	39.6%	40.6%	31.3%	28.4%

Table 5-2
Landfill Gas Sample - Laboratory Summary
Bradley Landfill & Recycling Center (BLRC)
May 27, 2004

SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples					
Compound	**Gas Plant BL-001 (ppbV)**	**Flare #1 BL-004 (ppbV)**	**Flare #2 BL-003 (ppbV)**	**Flare #3 BL-002 (ppbV)**	**Reporting Limit (ppbV)**
Benzene	6,590	3,870	1,520	6,130	<20
Benzyl Chloride	<40	<40	<40	<40	<40
Carbon Tetrachloride	<30	<30	<30	<30	<30
Chlorobenzene	190	129	118	114	<30
Chloroform	<20	<20	<20	<20	<20
1,1-Dichloroethane	350	433	87.8	131	<20
1,1-Dichloroethylene	74.9	75.3	<30	48.1	<30
Dichloromethane	1,900	2,230	118	276	<30
1,2-Dibromoethane	<30	<30	<30	<30	<30
Dichlorobenzenes[1]	2,160	78.7	60.5	33.5	<30
1,2-Dichloroethane	90.6	75.4	<20	40.9	<20
Trichloroethene	1,080	911	207	447	<20
Perchloroethene	2,900	2,000	720	1,040	<20
Toluene	51,000	30,900	6,450	22,800	<20
1,1,1-trichoroethane	<20	<20	<20	<20	<20
Total Xylenes*	31,340	13,360	7,990	9,920	<20
Vinyl Chloride	220	300	864	386	<20
Compound	**(ppmV)**	**(ppmV)**	**(ppmV)**	**(ppmV)**	**(ppmV)**
Total Non-Methane Organics (as Methane)	11,200	8,050	2,750	4,950	<20
Hydrogen sulfide	59.9	56.0	40.2	16.8	<0.5
Carbonyl sulfide	0.28	0.34	0.12	0.14	<0.5
Methyl mercaptan	3.52	3.81	0.37	1.41	<0.06
Ethyl mercaptan	<0.1	<0.1	0.11	<0.1	<0.12
Dimethyl sulfide	7.29	7.09	0.85	5.61	<0.1
Carbon disulfide	0.24	0.17	0.13	0.12	<0.09
Isopropyl mercaptan	0.35	0.37	<0.06	0.068	<0.06
n-propyl mercaptan	<0.06	<0.06	<0.06	<0.06	<0.06
Dimethyl disulfide	0.26	0.14	0.12	0.28	<0.06
Total reduced sulfur	72.3	68.2	42.2	24.8	<0.5
BTU / ft.3	409	417	318	291	<1

Table 5-2 (Continued)
Landfill Gas Sample - Laboratory Summary
Bradley Landfill & Recycling Center (BLRC)
May 27, 2004

SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples					
Compound	**Gas Plant BL-001 (%,V)**	**Flare #1 BL-004 (%,V)**	**Flare #2 BL-003 (%,V)**	**Flare #3 BL-002 (%,V)**	**Reporting Limit (%,V)**
Nitrogen	21.4	20.4	36.4	39.0	0.1
Oxygen	1.40	1.10	2.56	4.35	0.1
Methane	39.6	40.6	31.3	28.4	0.1
Carbon dioxide	35.8	36.0	28.4	26.4	0.1

ND: Not detected.
*Total xylenes reported includes the sum of the detected concentrations of m-& p-xylenes and o-xylenes.
** = Coeluting Compounds
The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.
(1) Total amount containing meta, para, and ortho isomers.

Table 5-3
Quarterly H_2S Monitoring Results
Bradley Landfill, Sun Valley, California

DATE	TIME	TEMP	PLANT GAS SALES	FLARE 1	FLARE 2	FLARE 3
4/1/2004	1500	61	56	Monthly Sampling		
4/2/2004	1600	61	56			
4/3/2004	*	*	*			
4/4/2004	*	*	*			
4/5/2004	1115	64	51 (Lab)	50 (Lab)	29 (Lab)	14 (Lab)
4/6/2004	0635	50		Monthly Sampling		
4/7/2004	1537	72	51			
4/8/2004	1600	70	56			
4/9/2004	1419	79	41			
4/10/2004	*	*	*			
4/11/2004	*	*	*			
4/12/2004	1053	67	53			
4/13/2004	1305	75	51			
4/14/2004	1610	75	**120**[1]			
4/15/2004	0847	64	45			
4/16/2004	1024	60	50			
4/17/2004	*	*	*			
4/18/2004	*	*	*			
4/19/2004	1240	76	55			
4/20/2004	1300	78	52			
4/21/2004	1220	72	60			
4/22/2004	1226	76	54			
4/23/2004	0655	62	45			
4/24/2004	*	*	*			
4/25/2004	*	*	*			
4/26/2004	1430	100	58			
4/27/2004	0900	82	54			
4/28/2004	0910	77	53			
4/29/2004	0830	58	62			
4/30/2004	0810	70	56			
05/01/04	*	*	*			
05/02/04	*	*	*			
05/03/04	1000	99	**			
05/04/04	1730	94	61			
05/05/04	1325	87	58			
05/06/04	1030	88	58			
05/07/04	1710	87	56			
05/08/04	*	*	*			
05/09/04	*	*	*			
05/10/04	1100	73	58			
05/11/04	1610	78	55			
05/12/04	0945	76	60			
05/13/04	0947	79	50			
05/14/04	1252	89	55			
05/15/04	*	*	*			
05/16/04	*	*	*			
05/17/04	0945	63	44			
05/18/04	1500	81	48			
05/19/04	1250	77	46			
05/20/04	0950	77	49			
05/21/04	0720	56	54			

Table 5-3
Quarterly H_2S Monitoring Results
Bradley Landfill, Sun Valley, California

DATE	TIME	TEMP	PLANT GAS SALES	FLARE 1	FLARE 2	FLARE 3
05/22/04	*	*	*	Monthly Sampling		
05/23/04	*	*	*			
05/24/04	1056	68	58			
05/25/04	1525	74	52			
05/26/04	1445	79	59			
05/27/04	1420	76	58/59.9(Lab)	16.8 (Lab)	40.2 (Lab)	56 (Lab)
05/28/04	1510	75	56	Monthly Sampling		
05/29/04	*	*	*			
05/30/04	*	*	*			
05/31/04	*	*	*			
06/01/04	1340	92	60			
06/02/04	1120	89	55			
06/03/04	1515	94	55			
06/04/04	1500	91	58			
06/05/04	*	*	*			
06/06/04	*	*	*			
06/07/04	0753	62	55			
06/08/04	1400	76	58			
06/09/04	0730	59	56			
06/10/04	1420	86	52			
06/11/04	1400	87	56			
06/12/04	*	*	*			
06/13/04	*	*	*			
06/14/04	1550	87	58			
06/15/04	1420	84	56			
06/16/04	1730	66	55			
06/17/04	0700	60	58			
06/18/04	1857	68	56			
06/19/04	*	*	*			
06/20/04	*	*	*			
06/21/04	--	--	55			
06/22/04	2000	48	48			
06/23/04	0625	55	55/60 Lab	49.7 (Lab)	38.4 (Lab)	24.4 (Lab)
06/24/04	0710	50	50	Monthly Sampling		
06/25/04	0740	50	50			
06/26/04	*	*	*			
06/27/04	*	*	*			
06/28/04	1159	74	53			
06/29/04	1215	76	58			
06/30/04	0730	53	58			

-- = Data not collected due to plant operator out
* = Data not collected on weekends and holidays
** = Not Collected, No H2S tubes available
(1) High concentration appears to be an anomoly

6 AMBIENT AIR SAMPLING§1150.1(e)5

6.1 Ambient Air Sampling Protocol

Second Quarter, 2004, ambient air sampling was performed on April 30, 2004. Protocols were followed pursuant to SCAQMD Rule 1150.1, Attachment A.

Four ambient air samplers were used to collect upwind (south) and downwind (north) samples. Two ambient air samplers were placed upwind at the landfill property boundary and two downwind at the landfill property boundary. Figure 1, Surface Emissions Monitoring Site Plan, shows the ambient air sample locations.

The ambient air sampling program was designed in accordance with the Guidelines for Implementation of Rule 1150.1 and the compliance plan requirements issued by the SCAQMD. All procedures and equipment used in the program are consistent with guideline specifications.

The Landfill compliance plan requires the collection of four (4) 12-hour samples located at the landfill perimeter. These 12-hour samples (two each) are representative of the predominant upslope and down slope wind flow patterns during each 12-hour time periods. These locations were selected based upon evaluation of current and historic wind monitoring data collected on site. Sampling stations are positioned to provide good meteorological exposure to the predominant up slope flows and anticipated nighttime local air drainage patterns typically encountered at this site.

Ambient air samplers used at the Landfill were constructed, installed, and operated to meet SCAQMD design criteria and performance specifications published in the Rule 1150.1 guidelines. Light-sealed boxes containing individual 10-liter Tedlar sample bags were housed within each sampling station enclosure. Analyses were performed within 72 hours after sampling was concluded

A portable wind speed and direction station manufactured by Climatronics was used. A continuous recorder connected to the wind station was used to record wind speed and direction for the entire duration of integrated sampling. Section 7, Field Instrumentation and Equipment Specifications, describes both the ambient air sampler assembly and the wind station in greater detail. Tedlar bags used for collecting the 24-hour integrated samples were purged three times with nitrogen and tested for leaks prior to usage.

Appendix G, Tedlar Bag Quality Assurance and Control, includes a Tedlar bag checklist that summarizes pertinent data regarding this procedure

The four samples were sent to AtmAA, Inc., for analysis of toxic air contaminants, methane, and TGNMOs. Technicians responsible for transporting the integrated samples recorded pertinent information on a Chain-of-Custody form included in Appendix F, Ambient Air Sampling. Additional personnel receiving the integrated samples recorded their signatures on the Chain-of-Custody form.

Ambient air samples were collected when the average wind speed was five miles per hour or less, and the instantaneous wind speed was less than fifteen miles per hour. The samples were not collected within 72 hours of a rainstorm. Wind speed and direction charts are included in Appendix F.

6.2 Ambient Air Laboratory Results

Upwind ambient air samples (AA-1, AA-4) and downwind ambient air samples (AA-2, AA-3) were sent to AtmAA, Inc. on May 4, 2004 for analysis. Table 6-1, Ambient Air Samples Laboratory Summary, summarizes the laboratory methods and results.

Upwind Samples

Laboratory analysis of sample AA-1 (Lab Sample 01254-5) detected a TGNMO concentration of 2.68 ppmV. The methane concentration was 1.84 ppmV. Laboratory analysis of sample AA-4 (Lab Sample 01254-8) detected a TGNMO concentration of 2.33 ppmV. The toluene concentration was 8.46 ppbV and the methane concentration was 2.00 ppmV. The presence of methane in upwind samples is likely due to periodic wind shifts during sample collection.

Downwind Samples

Laboratory analysis of sample AA-2 (Lab Sample 01254-6) detected toluene at a concentration of 1.51 ppbV. The TGNMO and methane concentrations were 2.37 and 2.02 ppmV, respectively. Laboratory analysis of sample AA-3 (Lab Sample 01254-7) detected a TGNMO concentration of 1.48 ppmV. The methane concentration was 1.93 ppmV.

Table 6-1
Ambient Air Sampling Laboratory Summary
Bradley Landfill & Recycling Center (BLRC)
April 30, 2004

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples			
Compound	**Sample Ambient Air AA-1 Results (ppbV)**	**Sample Ambient Air AA-2 Results (ppbV)**	**Reporting Limit (ppbV)**
Hydrogen Sulfide	<50	<50	50
Benzene	0.23	0.32	1.6
Benzyl Chloride	<0.4	<04	0.97
Carbon Tetrachloride	0.11	0.11	0.8
Chlorobenzene	<0.1	<0.1	1.1
Chloroform	<0.1	<0.1	1.0
1,1-Dichloroethane	<0.1	<0.1	1.2
1,1-Dichloroethylene	<0.1	<0.1	1.3
1,2-Dibromoethane	<0.1	<0.1	0.65
Dichlorobenzene[1]	<1.1	<1.1	0.83
Dichloromethane	0.14	0.13	<0.1
1,2-Dichloroethane	<0.1	<0.1	1.2
1,1,1-Trichloroethane	<0.1	<0.1	0.92
Perchloroethene	<0.1	<0.1	<0.1
Toluene	1.58	1.51	1.3
Total Xylenes*	0.73	0.67	1.2
Trichloroethene	0.10	0.11	0.93
Vinyl Chloride	<0.1	<0.1	2.0

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples			
Compound	**Sample Ambient Air AA-1 Results (ppbV)**	**Sample Ambient Air AA-2 Results (ppbV)**	**Reporting Limit (ppmV)**
Methane	1.84	2.02	0.5
Total Non-Methane Organics (as methane)	2.68	2.37	1.0

Table 6-1 (Continued)
Ambient Air Sampling Laboratory Summary
Bradley Landfill & Recycling Center (BLRC)
April 30, 2004

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples			
Compound	**Sample Ambient Air AA-3 Results (ppbV)**	**Sample Ambient Air AA-4 Results (ppbV)**	**Reporting Limit (ppbV)**
Hydrogen Sulfide	<50	<50	50
Benzene	0.24	0.87	1.6
Benzyl Chloride	<0.4	<04	0.97
Carbon Tetrachloride	0.11	0.12	0.8
Chlorobenzene	<0.1	<0.1	1.1
Chloroform	<0.1	<0.1	1.0
1,1-Dichloroethane	<0.1	<0.1	1.2
1,1-Dichloroethylene	<0.1	<0.1	1.3
1,2-Dibromoethane	<0.1	<0.1	0.65
Dichlorobenzene[1]	<1.1	<1.1	0.83
Dichloromethane	0.14	0.13	<0.1
1,2-Dichloroethane	<0.1	<0.1	1.2
1,1,1-Trichloroethane	<0.1	0.12	0.92
Perchloroethene	<0.1	<0.1	<0.1
Toluene	1.18	8.46	1.3
Total Xylenes*	0.70	3.57	1.2
Trichloroethene	<0.1	<0.1	0.93
Vinyl Chloride	<0.1	<0.1	2.0

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples			
Compound	**Sample Ambient Air AA-3 Results (ppbV)**	**Sample Ambient Air AA-4 Results (ppbV)**	**Reporting Limit (ppbV)**
Methane	1.93	2.00	0.5
Total Non-Methane Organics (as methane)	1.48	2.33	1.0

7 FIELD INSTRUMENTATION AND EQUIPMENT SPECIFICATIONS

7.1 Meteorological Station

The portable meteorological station used for measuring wind speed and direction during instantaneous and integrated surface sampling, and ambient air monitoring is manufactured by Climatronics. This monitor collects continuous wind data during all monitoring events. The wind system consists of a Climatronics, equipped with F460 wind sensors with threshold speeds of 0.50 miles per hour and a protable dual channel recording strip chart.

A continuous recorder and battery is housed in a portable steel case to prevent damage to the system. The continuous recorder averages wind speed and direction measurements on a 15-minute increments. Measurements are recorded on a strip chart paper. The date, time, and wind speed and direction measurements are recorded daily after each instantaneous or integrated sampling session is completed.

A supervisor monitored the wind speed during instantaneous and integrated sampling sessions so that technicians are continuously aware of the wind speed when walking traverses or grid patterns.

7.2 Organic Vapor Analyzer

A portable Organic Vapor Analyzer (OVA) manufactured by Foxboro was used for monitoring the surface emission concentration of total organic compounds (TOCs) during instantaneous monitoring, and for measuring TOC concentrations in integrated surface samples and perimeter probes (ppm range). The OVA used had the minimum specifications:

- Range: 0-10,000 ppm (v/v)
- Minimum detectable limit: 5 ppm
- Response time: 15 seconds
- Flame out indicator: audible and visual
- Accuracy: +/-4%
- Precision: +/-3%

- Ambient temperature: 0-50 degrees Celsius

7.3 GEM-500 Gas Extraction Monitor

A GEM-500 Gas Extraction Monitor, manufactured by LANDTEC, for use on landfills to monitor landfill gas was used for monitoring landfill gas composition. Compounds measured include methane, carbon dioxide, oxygen, and balance gas as nitrogen in percent volume and methane as percent of LEL.

The GEM-500 Specifications are as follows:

	Sensor Range Imperial	Resolution Imperial
Methane - CH_4:	0-100%	0.1%
Carbon dioxide – CO_2:	0-75%	0.1%
Oxygen – O_2:	0-100%	0.1%
Pressure (differential):	0-10" w.c.	0.01" w.c.
(static):	0-100" w.c.	0.1"w.c.

GEM-500 Typical Accuracy:

Concentration	%CH_4 by Volume	%CO_2 by Volume	%O_2 by Volume
5% LEL	+/- 0.3%	N/A	+/- .25%
75%	+/- 1.9%	+/- 3.0%	N/A
100%	+/- 1.95%	N/A	N/A

7.4 GEM-2000 Gas Extraction Monitor

A GEM-2000 Gas Extraction Monitor, manufactured by LANDTEC, for use on landfills to monitor landfill gas was used for monitoring landfill gas composition. Compounds measured include methane, carbon dioxide, oxygen, and balance gas as nitrogen in percent volume and methane as percent of LEL.

The GEM-2000 Specifications are as follows:

	Sensor Range Imperial	Resolution Imperial
Methane - CH_4:	0-100%	0.1%
Carbon dioxide – CO_2:	0-100%	0.1%
Oxygen – O_2:	0-25%	0.1%
Pressure (differential):	0-10" w.c.	0.01" w.c.
(static):	0-100" w.c.	0.1"w.c.

GEM-2000 Typical Accuracy:

Concentration	%CH_4 by Volume	%CO_2 by Volume	%O_2 by Volume
0-5%	+/- 0.5%	+/- 0.5%	+/- .25%
5-15%	+/- 1%	+/- 1%	N/A
15%-FS	+/- 3%	N/A	N/A

7.5 Integrated Surface Sampler

Each portable Integrated Sampler is comprised of a Tedlar bag, DC pump, and a calibrated flow controller. Each bag sampler is calibrated by a film (bubble meter) calibration method. Each Tedlar bag sample was purged three times with ultra-pure nitrogen before sampling and enclosed in a light-sealed box after sampling. Analyses were performed within 72 hours after sampling was conducted.

7.6 Tedlar Bags

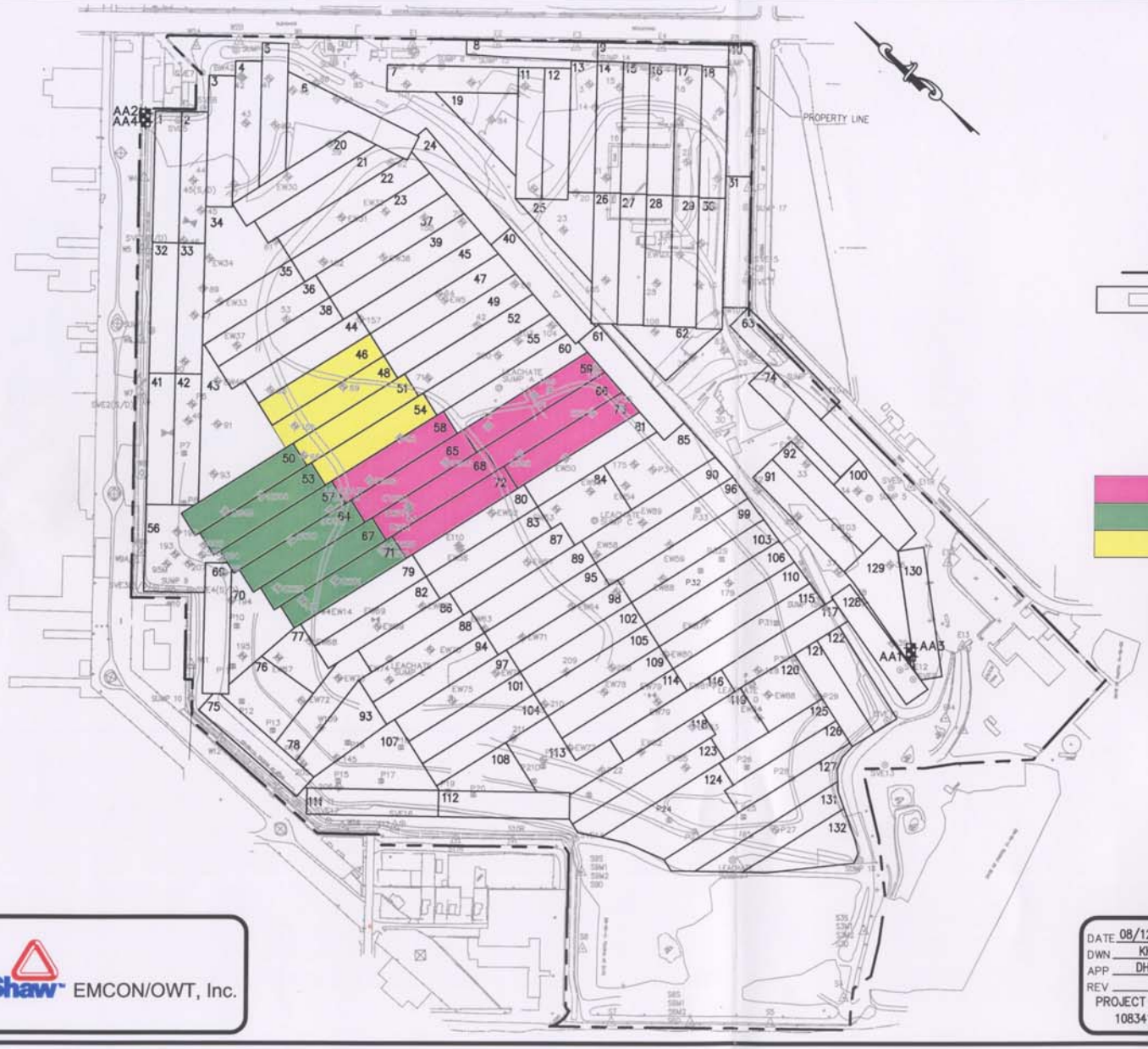
Ten-liter bags, made of Tedlar material, were used to collect integrated samples, and for the collection of the raw gas sample at the main gas conveyance line. Each Tedlar bag, prior to use, is filled with nitrogen for a minimum of 24 hours and checked for leaks. Each used Tedlar bag is purged three times with nitrogen and re-filled with nitrogen for a minimum of 24 hours and checked for leaks. Each Tedlar bag is numbered for tracking purposes and each number corresponds with the number of the integrated sampling grid.

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

FIGURES



LEGEND

- VAPOR EXTRACTION WELLS
- PROPERTY BOUNDARY
- SURFACE EMISSIONS MONITORING GRID
- TOTAL ORGANIC COMPOUNDS (TOC) MEASURED AS METHANE USING ORGANIC VAPOR ANALYZER
- AA1 UP WIND SAMPLER 09:00 – 21:00, 04/30/04
- AA2 DOWN WIND SAMPLER 09:00 – 21:00, 04/30/04
- AA3 DOWN WIND SAMPLER 21:00 – 09:00, 04/30/04
- AA4 UP WIND SAMPLER 21:00 – 09:00, 04/30/04
- ACTIVE FILL AREA 4/22/04
- ACTIVE FILL AREA 5/26/04
- ACTIVE FILL AREA 6/17/04

NOTES:

1) ALL TOTAL ORGANIC COMPOUND (TOC) CONCENTRATIONS ARE MEAUSRED IN PARTS PER MILLION (PPM) AS METHANE.
2) BACKGROUND TOC READING WAS 5 ppm.
3) BRADLEY WEATHER STATION IS LOCATED ATOP THE MAIN OFFICE BUILDING (NOT SHOWN ON MAP) .
4) AA = AMBIENT AIR MONITORING STATION.

0 400 800

SCALE IN FEET

1" 1/2" 0" 1"

Shaw EMCON/OWT, Inc.

DATE 08/12/04
DWN KK
APP DHT
REV
PROJECT NO. 108341

FIGURE 1
WASTE MANAGEMENT OF CALIFORNIA, INC.
BRADLEY LANDFILL AND RECYCLING CENTER
SUN VALLEY, CALIFORNIA
2nd QUARTER 2004
SURFACE EMISSIONS MONITORING SITE PLAN

LEGEND

- PROPERTY BOUNDARY
- 10,000 ppm 23 — SURFACE EMSSIONS MONITORING GRID
- TOTAL ORGANIC COMPOUNDS (TOC) MEASURED AS METHANE USING ORGANIC VAPOR ANALYZER
- AA1 — UP WIND SAMPLER 09:00 – 21:00, 04/30/04
- AA2 — DOWN WIND SAMPLER 09:00 – 21:00, 04/30/04
- AA3 — DOWN WIND SAMPLER 21:00 – 09:00, 04/30/04
- AA4 — UP WIND SAMPLER 21:00 – 09:00, 04/30/04
- OVER 500 ppm APRIL 2004
- OVER 500 ppm MAY 2004
- OVER 500 ppm JUNE 2004

NOTES:

1) ALL TOTAL ORGANIC COMPOUND (TOC) CONCENTRATIONS ARE MEAUSRED IN PARTS PER MILLION (PPM) AS METHANE.
2) BACKGROUND TOC READING WAS 5 ppm.
3) BRADLEY WEATHER STATION IS LOCATED ATOP THE MAIN OFFICE BUILDING (NOT SHOWN ON MAP) .
4) AA = AMBIENT AIR MONITORING STATION.

0 400 800

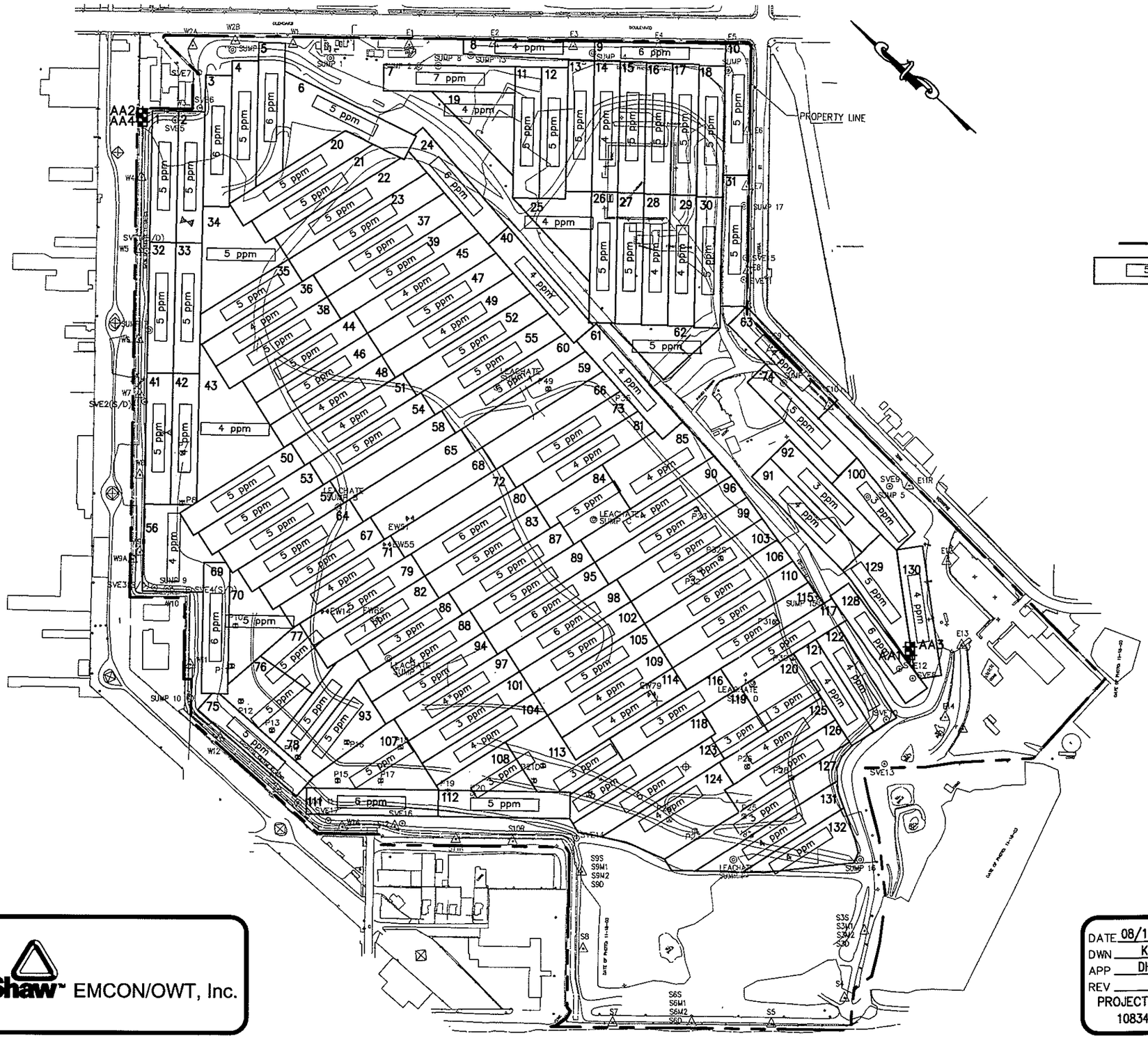
SCALE IN FEET

1" 1/2" 0" 1"

Shaw EMCON/OWT, Inc.

DATE 08/12/04
DWN KK
APP DHT
REV
PROJECT NO. 108341

FIGURE 2
WASTE MANAGEMENT OF CALIFORNIA, INC.
BRADLEY LANDFILL AND RECYCLING CENTER
SUN VALLEY, CALIFORNIA
2nd QUARTER 2004
INSTANTANEOUS SURFACE EMISSIONS RESULTS



LEGEND

- PROPERTY BOUNDARY
- 5 ppm — INTEGRATED SURFACE SAMPLING GRID
- TOTAL ORGANIC COMPOUNDS (TOC) MEASURED AS METHANE USING ORGANIC VAPOR ANALYZER
- AA1 — UP WIND SAMPLER 09:00 – 21:00, 04/30/04
- AA2 — DOWN WIND SAMPLER 09:00 – 21:00, 04/30/04
- AA3 — DOWN WIND SAMPLER 21:00 – 09:00, 04/30/04
- AA4 — UP WIND SAMPLER 21:00 – 09:00, 04/30/04

NOTES:

1) ALL TOTAL ORGANIC COMPOUND (TOC) CONCENTRATIONS ARE MEAUSRED IN PARTS PER MILLION (PPM) AS METHANE.
2) BACKGROUND TOC READING WAS 5 ppm.
3) BRADLEY WEATHER STATION IS LOCATED ATOP THE MAIN OFFICE BUILDING (NOT SHOWN ON MAP) .
4) AA = AMBIENT AIR MONITORING STATION.

0 400 800

SCALE IN FEET

1" 1/2" 0" 1"

Shaw™ EMCON/OWT, Inc.

DATE 08/12/04
DWN KK
APP DHT
REV
PROJECT NO. 108341

FIGURE 3
WASTE MANAGEMENT OF CALIFORNIA, INC.
BRADLEY LANDFILL AND RECYCLING CENTER
SUN VALLEY, CALIFORNIA
2nd QUARTER 2004
INTEGRATED SURFACE EMISSIONS RESULTS

APPENDIX A

ALTERNATIVE RULE 1150.1 COMPLIANCE PLAN

South Coast
Air Quality Management District
21865 E. Copley Drive, Diamond Bar, CA 91765-4182
(909) 396-2000 • www.aqmd.gov

June 19, 2002

WASTE MANAGEMENT DISPOSAL SVCS OF CAL
9081 TUJUNGA AVE
SUN VALLEY, CA 91352

Attention: SCOTT PIGNAC

RULE 1150.1 COMPLIANCE PLAN

Reference is made to your Application for a Rule 1150.1 Compliance Plan for the following landfill.

Facility ID:	50310	Sector:	PC
Application No:	394147	Phone No:	(818) 767-6180
Common Name:	Bradley Landfill		
Location Address:	9227 TUJUNGA AVE		
City:	SUN VALLEY	, CA	91352-1542

South Coast Air Quality Management District (AQMD) has reviewed your application and approved the alternatives as described in the inserts to the attached Rule 1150.1 requirements for your landfill. Rule 1150.1 Compliance Plans may be submitted by each owner or operator responsible for that section of the rule directly under their control, or by the owner or operator responsible for the entire landfill. Compliance under the alternative provision is achieved if only one owner or operator with responsibility submits a compliance plan for the applicable section of the rule. Only one alternative to each rule requirement shall be allowed for multiple Compliance Plans issued to one landfill, and that alternative shall be written into each Compliance Plan for that landfill. The AQMD reserves the right to deny any or all of these alternatives if it is determined that the alternative(s) allow emissions from the landfill that would not have occurred if the owner or operator were complying with the rule requirements. **This Compliance Plan supercedes all previous plans issued to you for this site. The Municipal Solid Waste (MSW) landfill owner or operator shall comply with this approved Compliance Plan no later than October 1, 2002.**

Where no Rule 1150.1 alternatives are specified, compliance with provisions of Rule 1150.1 is required. You are further advised that other governmental agencies may require approval for the operation of this landfill and it is the responsibility of the applicant to obtain approval from each agency. This compliance plan will remain in force until either a new plan is filed and approved or the applicant is notified by the Executive Officer of revisions to this plan. The AQMD shall not be responsible or liable for any losses resulting from measures required or taken pursuant to the requirements of this approved Rule 1150.1 Compliance Plan.

If you have any questions regarding this matter, please phone Ted Kowalczyk, Air Quality Engineer at (909) 396-2592.

Sincerely,

Jay Chen. P.E.
Senior A.Q. Engineering Manager

cc: Larry Israel
Air Quality Inspector
Revision Number: 3

Alternative Compliance Plan For Bradley Landfill, Issue No. 3

RULE 1150.1. CONTROL OF GASEOUS EMISSIONS FROM MUNICIPAL SOLID WASTE LANDFILLS (Amended March 17, 2000)

TABLE OF CONTENTS

The reference numbers in the left hand margin of the rule refer to sections of 40 CFR, Part 60, Subpart WWW (NSPS)

(a) Purpose

The rule is intended to limit Municipal Solid Waste (MSW) landfill emissions to prevent public nuisance and possible detriment to public health caused by exposure to such emissions.

(b) Applicability

This rule applies to each active and inactive MSW landfill.

(c) Definitions

Terms used but not defined in this rule have the meaning given them in 40 CFR, Part 60, Section 60.751 (Definitions):

(1) ADMINISTRATOR means the Executive Officer of the South Coast Air Quality Management District (District).

(2) ACTIVE LANDFILL means an MSW landfill that has received waste on or after November 8, 1987.

(3) BACKGROUND means the local ambient concentration of total organic compounds (TOC) measured as methane determined by holding the instrument probe approximately 5 to 6 feet above the landfill surface.

(4) CLOSED LANDFILL means a disposal facility that has ceased accepting waste and was closed in accordance with all applicable federal, state and local statutes, regulations, and ordinances in effect at the time of closure.

(5) INACTIVE LANDFILL means an MSW landfill where solid waste had been disposed of before November 8, 1987 and no more subsequent solid waste disposal activity has been conducted within the disposal facility.

(6) MSW LANDFILL means an entire disposal facility in a contiguous geographical space where solid waste is placed in or on land. An MSW landfill may be either active or inactive.

(7) OPERATOR means the person:

(A) Operating the MSW landfill, or

(B) Operating the MSW landfill gas collection or control system.

(8) OWNER means the person holding Title to the property.

(9) PERIMETER means the outer boundary of the entire waste disposal property.

(10) PROFESSIONAL ENGINEER means an engineer holding a valid certificate issued by the State of California Board of Registration for

Professional Engineers and Land Surveyors or a state offering reciprocity with California.

(11) TOXIC AIR CONTAMINANT (TAC) means an air contaminant which has been identified as a hazardous air pollutant pursuant to Section 7412 of Title 42 of the United States Code; or has been identified as a TAC by the Air Resources Board pursuant to Health and Safety Code Section 39655 through 39662, or which may cause or contribute to an increase in mortality or an increase in serious illness, or potential hazard to human health.

(d) Active Landfill Design and Operation Requirements

The MSW landfill owner or operator shall comply with the provisions of paragraphs (d)(1) through (d)(11):

(1) If a valid Permit to Construct or Permit to Operate for the collection and control system that meets the requirements of subparagraphs (d)(1)(A) through (d)(1)(C) has not been issued by the District by the adoption date of this rule, submit a site-specific collection and control system design plan. The design plan shall be prepared by a Professional Engineer and sent to the Executive Officer with applications for Permits to Construct or Permits to Operate no later than one year after the adoption of this rule. The Executive Officer shall review the collection and control system design and either approve it, disapprove it, or request that additional information be submitted.

752(b)(2)(i)
752(b)(2)(i)(D)

(A) The collection and control system shall be designed to handle the maximum expected gas flow rate from the entire area of the landfill that requires control, to minimize migration of subsurface gas to comply with paragraph (d)(4), and to collect gas at an extraction rate to comply with paragraphs (d)(5) and (d)(6). For the purposes of calculating the maximum expected gas generation flow rate from the landfill, one of the equations in 40 CFR, Part 60, Section 60.755(a)(1) shall be used. Another method may be used to determine the maximum gas generation flow rate, if the method has been approved by the Executive Officer.

752(b)(2)(ii)(A)(*1*), (*3*), (*4*)
755(a)(1)
758(b)(1)(i)

(B) If a valid Permit to Construct or Permit to Operate has not been issued by the District for the collection and control system, the collection and control system design plan shall either conform with

752(b)(2)(i)(C)
756(e)

specifications for active collection systems in 40 CFR, Part 60, Section 60.759 or include a demonstration to the Executive Officer's satisfaction of the sufficiency of the alternative provisions describing the design and operation of the collection system, the operating parameters that would indicate proper performance, and appropriate monitoring procedures. Alternatives to this rule shall be submitted as specified in subdivision (i).

(C) The design plan shall provide for the control of collected MSW landfill emissions through the use of a collection and control system meeting the applicable requirements in clauses (d)(1)(C)(i) and (d)(1)(C)(ii):

752(b)(2)(iii)

(i) Route all the collected gas to a control system designed and operated to either reduce NMOC by at least 98 percent by weight or reduce the outlet NMOC concentration to less than 20 parts per million by volume (ppmv), dry basis as hexane at 3 percent oxygen. The required reduction efficiency or ppmv shall be established by an initial source test, required under 40 CFR, Part 60, Section 60.8 and **annually** thereafter using the test methods specified in paragraph (j)(1). The annual source test shall be conducted no later than 45 days after the anniversary date of the initial source test.

ALTERNATIVE: THE FOLLOWING FREQUENCY SHALL BE USED FOR SOURCE TESTING IDENTICAL FLARES LISTED ON ONE PERMIT TO OPERATE WHERE IDENTICAL MEANS, BUT IS NOT LIMITED TO:

MAKE AND MODEL, BURNERS, OPERATIONAL SETTINGS, MAINTENANCE AND FUELS.

SINGLE BACKUP FLARE- AFTER EVERY 4000 HOURS OF OPERATION.

MULTIPLE BACKUP FLARES - ONE FLARE AFTER EVERY 4000 HOURS OF CUMULATIVE BACKUP OPERATION FOR ALL FLARES LISTED ON THE PERMIT TO OPERATE. ALTERNATE TESTING OF THE FLARES SUCH THAT EACH FLARE IS TESTED.

NON-BACKUP FLARES: AT LEAST ONE FLARE EVERY YEAR AND THEN ALTERNATE ALL OTHERS SUCH THAT EACH IS SOURCE TESTED AT LEAST ONCE EVERY THREE YEARS.

(I) If a boiler or process heater is used as the control device, the landfill gas stream shall be introduced into the flame zone. Where the landfill gas is the primary fuel for the boiler or process heater, introduction of the landfill gas stream into the flame zone is not required.

(II) The control device shall be operated within the **operating parameter ranges** established during the initial or most recent compliant source test. The operating parameters to be monitored are specified under paragraph (e)(6).

(ii) Route the collected gas to a treatment system that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of clause (d)(1)(C)(i).

(2) Install and operate the collection and control system no later than 18 months after the submittal of the design plan. 752(b)(2)(ii)

(3) If the District has not issued prior written approval for subsurface refuse boundary sampling probes, design and install subsurface refuse boundary sampling probes as specified in Section 1.1, Attachment A, to determine whether landfill gas migration exists. Installation of the refuse boundary probes shall be no later than 18 months after the submittal of the collection and control design plan as specified in paragraph (d)(1).

ALTERNATIVE: THE SUBSURFACE REFUSE BOUNDARY PROBES APPROVED IN THE PAST OR SUBMITTED WITH THIS APPLICATION, ARE APPROVED. ALL FUTURE DESIGNS AND INSTALLATIONS NOT MEETING THE RULE REQUIREMENTS, SHALL BE SUBMITTED FOR AQMD PRE-CONSTRUCTION APPROVAL WITH A COMPLIANCE PLAN APPLICATION.

(4) Operate the collection system to prevent the concentration of TOC measured as methane from exceeding five percent by volume in the subsurface refuse boundary sampling probes constructed for the purposes of detecting lateral migration of landfill gas away from the waste mass, as determined from collected samples.

ALTERNATIVE: EXCEPT PROBE E-8-D (AS IDENTIFIED ON "FIGURE 1. SITE PLAN OF BRADELY EAST LANDFILL IN VICINITY OF PROBE E-8" – 12/5/01).

(5) Operate the collection system to prevent the concentration of TOC measured as methane from exceeding 50 ppmv as determined by integrated samples taken on numbered 50,000 square foot landfill grids.

(6) Operate the collection system to prevent the concentration of TOC
753(d) measured as methane from exceeding 500 ppmv above background as determined by instantaneous monitoring at any location on the landfill, except at the outlet of any control device.

(7) Operate the control or treatment system at all times when the collected gas is routed to the system. In the event the collection, treatment or control
753(e) system is inoperable, the gas conveying system shall be shut down and all valves in the collection, treatment and control system contributing to venting of the gas to the atmosphere shall be closed no later than one hour after such breakdown or no later than one hour after the time the owner or operator knew or reasonably should have known of its occurrence.

(8) Operate the collection, treatment and control system until all the
752(b)(2)(V) exemption criteria under subdivision (k) has been met and the reports specified in subparagraph (f)(2)(D) have been submitted to the Executive Officer.

(9) Design, install and operate a wind speed and direction monitoring system with a continuous recorder of the requirements in subparagraphs (d)(9)(A)

and (d)(9)(B), at a site which is representative of the wind speed and direction in the areas being sampled. The wind velocity shall be recorded throughout the sampling period. The wind direction transmitter shall be oriented to true north using a compass. The monitor shall be installed according to the criteria set forth in 40 CFR, Part 50.

(A) For wind speed use a 3 cup assembly, with a range of 0 to 50 miles per hour, with a threshold of 0.75 mile per hour or less.

(B) For wind direction use a vane, with a range of 0 to 540 degrees azimuth, with a threshold of plus-minus 2 degrees.

(10) Comply with the requirements of Section 21140 – Final Cover, of California Code of Regulations Title 27, Subchapter 5 – Closure and Post-Closure Maintenance, upon closure of a MSW landfill unit, incorporated herein as Attachment B.

(11) Comply with the requirement of Section 20200 – State Water Resources Conservation Board (SWRCB) Applicability and Classification Criteria of California Code of Regulations Title 27, Article 2 – SWRCB, Waste Classification and Management, with respect to the disposal of liquids and semi-solid waste at Class III landfills, incorporated herein as Attachment C.

(e) Active Landfill Sampling and Monitoring Requirements

The MSW landfill owner or operator shall comply with the provisions of paragraphs (e)(1) through (e)(6), after installation of the landfill gas control system:

(1) Monitor and collect samples for analysis as specified in Section 1.0, Attachment A, to **determine the concentrations of TOC and TAC each month** from the subsurface refuse boundary sampling probes, to assure continued compliance. Any measurement of 5 percent TOC by volume or greater shall be recorded as an exceedance and the actions specified in subparagraphs (e)(1)(A) through (e)(1)(C) shall be taken.

ALTERNATIVE: PROBE E-8-D* ONLY, IN LIEU OF COMPLYING WITH PARAGRAPH (d)(4), OR (e)(1)(A-C) WITH RESPECT TO EXCEEDANCES, MONITOR INSTANTANEOUSLY GRID 31 D* PURSUANT TO SECTION 3.0, ATTACHMENT A. THE OPERATOR SHALL RECORD, MAINTAIN AND REPORT THE RESULTS OF THIS MONITORING PURSUANT TO

SUBDIVISION (f). *IDENTIFIED IN "FIGURE 1. SITE PLAN OF BRADELY EAST LANDFILL IN VICINITY OF PROBE E-8" – 12/5/01.

(A) The probe shall be identified and the location recorded as specified in Section 1.6, Attachment A.

(B) Adjustments to the vacuum of adjacent wells to increase the gas collection in the vicinity of the probe with the exceedance shall be made and the probe resampled no later than 10 calendar days after detecting the exceedance.

(C) If the resampling of the probe shows a second exceedance, additional corrective action shall be taken and the probe shall be resampled again no later than 10 calendar days after the second exceedance. If the resampling shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance.

(2) Collect **monthly integrated** samples for analysis as specified in Section 2.0, Attachment A, **to determine the concentrations of TOC and TAC** from the landfill surface, to assure continued compliance. Any reading of 50 ppmv or greater shall be recorded as an exceedance and the actions specified in subparagraphs (e)(2)(A) through (e)(2)(C) shall be taken.

ALTERNATIVE: THE LANDFILL SAMPLING GRIDS ARE DIVIDED INTO THREE TYPES: "A", "B" AND "C". QUARTERLY FOR TYPE "A" AND "B" GRIDS. ANNUALLY FOR TYPE "C" GRIDS.

(A) The grid shall be identified and the location recorded as specified in Section 2.8, Attachment A.

(B) Cover maintenance or adjustments to the vacuum of adjacent wells to increase the gas collection in the vicinity of the grid with the exceedance shall be made and the grid resampled no later than 10 calendar days after detecting the exceedance. If measurable precipitation occurs within the 10 calendar days, all resampling and analysis shall comply with Section 2.2.2, Attachment A.

(C) If the resampling of the grid shows a second exceedance, additional corrective action shall be taken and the grid shall be resampled again no later than 10 calendar days after the second exceedance. If the resampling shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance.

(3) Monitor instantaneously as specified in Section 3.0, Attachment A, to **determine the concentration of TOC each calendar quarter,** to assure continued compliance. Any reading of 500 ppmv TOC or greater shall be recorded as an exceedance and the actions specified in subparagraphs (e)(3)(A) through (e)(3)(C) shall be taken. Any closed landfill that has no monitored exceedances of the 500 ppmv standard in three consecutive quarterly monitoring periods may monitor annually. Any reading of 500 ppmv TOC or more above background detected during the annual monitoring or compliance inspections shall result in a return to quarterly monitoring for that landfill.

755(c)
756(f)

ALTERNATIVE: THE LANDFILL MONITORING GRIDS ARE DIVIDED INTO THREE TYPES: "A", "B" AND "C".

QUARTERLY FOR TYPE "A" AND "B" GRIDS.

QUARTERLY FOR "C" WELL HEADS, POLES, AND OTHER STRUCTURES PROTRUDING INTO THE REFUSE.

ANNUALLY FOR THE SURFACE OF TYPE "C" GRIDS.

(A) The location of each monitored exceedance shall be marked on the landfill or identified by using a global positioning system and the location recorded as specified in Section 3.4, Attachment A.

(B) Cover maintenance or adjustments to the vacuum of adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be remonitored no later than 10 calendar days after detecting the exceedance.

(C) If the remonitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be remonitored again no later than 10 days after the second exceedance. If the remonitoring shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance.

(4) Collect a **monthly** landfill gas sample for analysis as specified in Section 4.0, Attachment A, to **determine the concentrations of TOC and TAC** from the main gas collection header line entering the gas treatment and/or gas control systems.

ALTERNATIVE: QUARTERLY

(5) Collect **monthly** ambient air samples for analysis as specified in Section 5.0, Attachment A, to **determine the concentrations of TOC and TAC** from the landfill property boundary.

ALTERNATIVE: QUARTERLY

(6) Monitor the collection and control system equipment specified under subparagraphs (e)(6)(A) and (e)(6)(B) in order to comply with subparagraph (d)(1)(C).

(A) For an enclosed combustor install, calibrate, maintain, and operate according to the manufacturer's specifications, the following equipment: 756(b)

(ii) A temperature monitoring device equipped with a continuous recorder and having an accuracy of plus-minus 1 percent of the temperature being measured expressed in degrees Celsius or Fahrenheit. A temperature monitoring device is not required for boilers or process heaters with design heat input capacity greater than 44 megawatts.

(iii) At least one gas flow rate measuring device that shall record the flow to the control device(s) at least every 15 minutes.

(B) For a device other than an enclosed combustor, demonstrate compliance with subparagraph (d)(1)(C) by providing information satisfactory to the Executive Officer describing the operation of the 756(d)

control device, the operating parameters that would indicate proper performance, and appropriate monitoring procedures. Alternatives to this rule shall be submitted as specified in subdivision (i). The Executive Officer may specify additional appropriate monitoring procedures.

(f) Active Landfill Recordkeeping and Reporting Requirements

The MSW landfill owner or operator shall keep all records up-to-date, readily accessible and maintained for at least a period of 5 years and made available to District staff upon request. Records older than 2 years may be maintained off-site, if they are retrievable no later than 4 hours after request. 758(a)

(1) The records required in subparagraphs (f)(1)(A) through (f)(1)(H) shall be maintained at the facility.

(A) For the life of the control equipment as measured during the initial source test or compliance determination: 758(b)

(i) The control device vendor specifications.

(ii) The maximum expected gas generation flow rate as calculated in subparagraph (d)(1)(A).

(iii) When seeking to demonstrate compliance with subparagraph (d)(1)(C) through the use of an enclosed combustion device other than a boiler or process heater with a design heat input capacity greater than 44 megawatts:

(I) The average combustion temperature measured at least every 15 minutes and averaged over the same time period of the source test.

ALTERNATIVE: FOR FLARE(S), CONTINUOUSLY RECORD THE INSTANTANEOUS COMBUSTION TEMPERATURE.

(II) The reduction of NMOC determined as specified in clause (d)(1)(C)(i) achieved by the control device.

(iv) When seeking to demonstrate compliance with subclause (d)(1)(C)(i)(I) through the use of a boiler or process heater of any size: a description of the location at which the collected gas vent stream is introduced into the boiler or

process heater over the same time period of the source testing.

(B) The data required to be recorded under Section 1.6, Attachment A, for subsurface refuse boundary sampling probes and all remedial actions taken for exceedances of the 5 percent TOC standard required in paragraph (d)(4).

(C) The data required to be recorded under Section 2.8, Attachment A, for integrated samples and all remedial actions taken for exceedances of the 50 ppmv TOC standard required in paragraph (d)(5).

(D) The data required to be recorded under Section 3.4, Attachment A, for instantaneous monitoring and all remedial actions taken for exceedances of the 500 ppmv TOC standard required in paragraph (d)(6).

758(e)

(E) The data required to be recorded under Section 4.5, Attachment A, for landfill gas samples collected from the main gas collection header line entering the gas treatment and/or gas control systems.

(F) The data required to be recorded under Section 5.7, Attachment A, from ambient air collected at the landfill property boundary.

(G) A description and the duration of all periods when the collection, treatment or control device was not operating for a period exceeding one hour and the length of time the system was not operating.

757(f)(3)

(H) Continuous records of the equipment operating parameters specified to be monitored under paragraph (e)(6) as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded.

758(c)

(i) The following constitute exceedances that shall be recorded:

(I) For enclosed combustors except for boilers and process heaters with design heat input capacity of 44 megawatts (150 million British thermal unit per hour) or greater, all 3-hour periods of operation during which the average combustion temperature was more than 28° C (82° F) below the average

combustion temperature during the most recent source test at which compliance with subparagraph (d)(1)(C) was determined.

ALTERNATIVE: FOR FLARES, ALL 3-HOUR PERIODS OF OPERATION DURING WHICH THE INSTANTANEOUS COMBUSTION TEMPERATURE WAS MORE THAN 28 DEGREES C (82 DEGREES F) BELOW THE AVERAGE COMBUSTION TEMPERATURE DURING THE MOST RECENT SOURCE TEST AT WHICH COMPLIANCE WITH SUBPARAGRAPH (D)(1)(C) WAS DETERMINED.

FOR BOILERS THIS REQUIREMENT IS NOT APPLICABLE.

(II) For boilers or process heaters, whenever there is a change in the location at which the vent stream is introduced into the flame zone as required under clause (f)(1)(A)(iv).

(ii) Records of the indication of flow to the control device specified under paragraph (e)(6)(A)(ii).

(iii) Each owner or operator who uses a boiler or process heater with a design heat input capacity of 44 megawatts or greater to comply with subparagraph (d)(1)(C) shall keep records of all periods of operation of the boiler or process heater. (Examples of such records could include records of steam use, fuel use, or monitoring data collected pursuant to other State, local, Tribal, or Federal regulatory requirements.)

(2) The reports required in subparagraphs (f)(2)(A) through (f)(2)(D) shall be submitted to the Executive Officer (Either paper copy or electronic formats are acceptable).

(A) The initial source test report no later than 180 days after start-up and each succeeding complete annual source test report no later

than 45 days after the anniversary date of the initial source test, for all control systems required in subparagraph (d)(1)(C).

(B) A report no later than 45 days after the last day of each calendar quarter with the information required in clauses (f)(2)(B)(i) and (f)(2)(B)(ii).

(i) All exceedances of the emission standards required in paragraphs (d)(4), (d)(5) and (d)(6) in the format required under Sections 1.6, 2.8 and 3.4, Attachment A. All exceedance resampling/remonitoring and each corrective action required under paragraphs (e)(1), (e)(2) and (e)(3). If there are no exceedances, submit a letter stating there were no exceedances for that quarter.

(ii) All TAC analyses required in paragraphs (e)(1) through (e)(5).

(C) A closure report to the Executive Officer no later than 30 days after waste acceptance cessation. The Executive Officer may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR, Part 258, Section 258.60 or the applicable federal, state and local statutes, regulations, and ordinances in effect at the time of closure. If a closure report has been submitted to the Executive Officer, no additional wastes shall be placed into the landfill without filing a notification of modification as described under 40 CFR, Part 60, Section 60.7(a)(4).

757(d)

(C) A decommissioning report to the Executive Officer 30 days prior to well capping, removal or cessation of operation of the collection, treatment or control equipment. The decommissioning report shall contain all of the items as specified in clauses (f)(2)(D)(i) through (f)(2)(D)(iii):

757(e)

(i) A copy of the closure report submitted in accordance with subparagraph (f)(2)(C).

(ii) A copy of the initial source test report demonstrating that the collection and control system has been installed a minimum of 15 years.

(iii) All records needed to verify the landfill meets the exemption criteria under subdivision (k).

(g) Active Landfill Compliance Schedule

The MSW landfill owner or operator shall comply with the active landfill requirements of this rule or submit alternatives to this rule as specified in subdivision (i) no later than 90 days after April 10, 1998. Rule 1150.1 Compliance Plans previously submitted to the District shall remain in effect during the 90 days after April 10, 1998, or until the owner or operator has received an approved alternative Rule 1150.1 Compliance Plan submitted as specified in subdivision (i).

(h) Inactive Landfill Requirements

The MSW landfill owner or operator shall comply with either the applicable requirements in paragraphs (h)(1) and (h)(2) or submit alternatives to this rule as specified in subdivision (i).

(1) Inactive landfills that have a landfill gas collection system shall meet all of the active landfill requirements. For those inactive landfills without a gas collection system and determined to need one, meet all of the active landfill requirements, except the collection and control system design plan and applications for permits shall be submitted no later than one year after notification by the Executive Officer.

(2) Inactive landfills without a gas collection system:

(A) Upon discovery of TOC measured as methane exceeding 500 ppmv at any location on the landfill surface, apply mitigation measures such as compaction, additional cover, and/or watering to reduce the emissions to less than 500 ppmv. The procedure used for measurement of TOC shall meet the requirements of Section 3.0, Attachment A.

(B) Submit the following Data and/or meet the required action in paragraph (h)(1):

(i) At any time after the adoption of this rule, but not later than 30 days after the receipt of a request, submit to the Executive Officer a screening questionnaire pursuant to California Air Resources Board Health and Safety Code (H & S) 41805.5.

(ii) No later than 90 days after the date of a second request, submit to the Executive Officer a solid waste air quality assessment test (SWAT) report pursuant to H & S 41805.5, to determine whether or not a landfill gas collection and control system and/or a subsurface refuse boundary probe sampling system shall be required to be installed.

(iii) If additional time is needed to provide the information required in clauses (h)(2)(B)(i) and (h)(2)(B)(ii), a written request for an extension may be submitted in writing to the Executive Officer, indicating the amount of time that is needed to obtain such information. Such a request for an extension may be submitted to the Executive Officer no later than 30 days after the receipt of the Executive Officer's requests as specified in clauses (h)(2)(B)(i) and (h)(2)(B)(ii).

(iv) Upon notification by the Executive Officer that a landfill gas collection and control system and/or a subsurface refuse boundary probe sampling system shall be required, comply with paragraph (h)(1).

(i) Alternatives:

752(b)(2)(i)(B)

Because of the many site-specific factors involved in the design and operation of landfill gas systems, alternatives to the requirements, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions of this rule may be necessary. All alternatives to the requirements of this rule shall be submitted to the Executive Officer in a Rule 1150.1 Compliance Plan. The Executive Officer shall review the Rule 1150.1 Compliance Plan and either approve it, disapprove it, or request that additional information be submitted. The Executive Officer shall deny the plan unless he determines that it will provide equivalent levels of emission control and enforceability, as would compliance with the requirements of this rule.

(j) Test Methods

(1) Methods of Analysis

(A) Either U.S. EPA Reference Method 25 or U.S. EPA Reference Method 18, 40 CFR, Part 60, Appendix A shall be used to

754(d)

determine the efficiency of the control system in reducing NMOC by at least 98 percent by weight. If using Method 18, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The equation in subparagraph (j)(1)(B) shall be used to calculate efficiency.

(B) U.S. EPA Reference Method 25, 40 CFR, Part 60, Appendix A shall be used to determine the efficiency of the control system in reducing the outlet NMOC concentration to less than 20 ppmv, dry basis as hexane at 3 percent oxygen. Until, but not after District Method 25.3 has met equivalency as specified in paragraph (j)(2), U.S. EPA Reference Method 18, 40 CFR, Part 60, Appendix A may be used for this source test. If using Method 18, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The following equation shall be used to calculate efficiency:

Control Efficiency = $(NMOC_{in} - NMOC_{out})/(NMOC_{in})$
where,
$NMOC_{in}$ = mass of NMOC entering control device
$NMOC_{out}$ = mass of NMOC exiting control device

(2) Equivalent Test Methods

Any other method demonstrated to be equivalent and approved in writing by the Executive Officers of the District, the California Air Resources Board (CARB), and the Regional Administrator of the United States Environmental Protection Agency (U.S. EPA), Region IX, or their designees, may be used to determine compliance with this rule.

(k) Exemptions

An MSW landfill may be temporarily exempt from all or any portion of the requirements of this rule if the owner or operator can demonstrate to the Executive Officer that the MSW landfill emissions meet the requirements of paragraphs (k)(1) through (k)(4). Temporary exemption may be independently determined by the Executive Officer, if the MSW landfill emissions meet the requirements of paragraphs (k)(1) through (k)(4). MSW landfills issued temporary exemption

letters by the Executive Officer shall remain exempt, subject to periodic review, provided:

(1) The MSW landfill complies with the requirements of paragraphs (d)(4), (d)(5) and (d)(6).

(2) The MSW landfill emits less than 55 tons per year of NMOC as specified in 40 CFR, Part 60, Section 60.752(b) or, for a closed landfill, as specified in 40 CFR, Part 60, Section 60.752(b)(2)(v)(C).

752(b)

(3) The MSW landfill constitutes an insignificant health risk. In making this determination the Executive Officer shall consider the listed factors in subparagraphs (k)(3)(A) through (k)(3)(G). Where not specified, in evaluating the cancer risks and hazard indexes, the Executive Officer shall be guided by the definitions in District Rule 1401 - New Source Review of Carcinogenic Air Contaminants, and Rule 1402 - Control of Toxic Air Contaminants From Existing Sources.

(A) The proximity to, and any adverse impacts on, residences, schools, hospitals or other locations or structures which have children, or elderly or sick persons.

(B) The emission migration beyond the landfill property boundary.

(C) The complaint history.

(D) The age and closure date.

(E) The amount and type of waste deposited.

(F) That the emissions of carcinogenic air contaminants, specified in Table 1, Attachment A, from the landfill will not result in a maximum individual cancer risk greater than one in one million (1×10^{-6}) at any receptor location.

(G) That the emissions of TAC, specified in Table 1, Attachment A, from the landfill will not result in a total acute or chronic Hazard Index of greater than 1.

(4) The MSW landfill is in compliance with District Nuisance Rule 402.

Such temporary exemption shall be reviewed periodically by the Executive Officer, to consider the land use surrounding the landfill and gaseous emissions, and the impact on the public. Depending upon the results of the review, the Executive Officer may extend or terminate the exemption.

(l) Loss of Exemption

If an MSW landfill should have its temporary exemption terminated, the owner or operator shall comply with the active landfill requirements of this rule.

ATTACHMENT A

1.0 SUBSURFACE REFUSE BOUNDARY SAMPLING PROBES
Paragraph (d)(4) and (e)(1) Requirements of Rule 1150.1

1.1 Subsurface Probe Design and Installation

Landfills which are subject to Rule 1150.1 must install and maintain a subsurface refuse boundary probe sampling system of adequate design to determine if gas migration exists for the ultimate purpose of preventing surface emissions. The California Integrated Waste Management Board also requires the installation of refuse boundary probes for purposes of detecting and ultimately preventing subsurface migration of landfill gas past the permitted property boundary of the landfill/disposal site as well as the prevention of the accumulation of landfill gas in on-site structures. It is the District's intent that the subsurface refuse boundary probes required by paragraph (d)(3) of Rule 1150.1 be designed and installed in such a manner as to comply with the requirements of the California Integrated Waste Management Board (whenever possible) and Sections 1.1.1 through 1.1.4.

1.1.1 The probes shall be installed within the landfill property line and outside the refuse disposal area.

1.1.2 Wherever accessible, the **probes shall be located no further than 100 feet from the refuse boundary.**

ALTERNATIVE: WHEREVER ACCESSIBLE AND THE PROBES ARE GREATER THAN 100 FEET FROM THE REFUSE, MONITOR INSTANTANEOUSLY FROM THE REFUSE BOUNDARY TO THE PROBE, USING THE GRID METHOD EVERY QUARTER AND WHEN PROBES EXCEED 2% TOC.

1.1.3 The spacing between probes shall be based on the adjacent land use no further than 1320 feet (1/4 mile) from the refuse boundary and shall be determined as follows:

LAND USE	SPACING
Residential/Commercial	100 feet
Public Access	500 feet
Undeveloped Open Space, (No Public Access)	650 feet
Landfill with Liners	1000 feet

1.1.4 Each probe shall be capped, sealed, have a sampling valve and be of multiple-depth design for which the depth shall be determined based on the depth of refuse no further than 500 feet from the probe as follows:

First Depth	10 feet below surface.
Second Depth	25% of refuse depth or 25 feet below surface, whichever is deeper.
Third Depth	50% of refuse depth or 50 feet below surface, whichever is deeper.
Fourth Depth	75% of refuse depth or 75 feet below surface, whichever is deeper.

Second, third, or fourth depth probes may be deleted if the required depth of such probe is deeper than the depth of the refuse.

1.2 Number of Samples

All refuse boundary gas probes at each depth shall be monitored monthly for TOC measured as methane using a portable flame ionization detector (FID) meeting the requirements of Section 3.2 and with a tube connected to the probe sampling valve. In addition, samples shall be taken as specified in Section 1.2.1 or 1.2.2 to determine the concentration of both TOC and TAC. The Executive Officer may require additional probes to be sampled upon written request.

1.2.1 If the TOC concentration measured with the FID does not exceed 5% by volume in any of the probes, collect one bag sample from one probe with the highest concentration, or

1.2.2 If the TOC concentration measured with the FID for any of the probes exceeds 5% by volume, collect one bag sample per probe from the probes with the highest concentrations above 5% by volume, from at least five probes.

1.3 Subsurface Refuse Boundary Probe Sampling Procedure

1.3.1 Prior to collecting gas samples, evacuate the probe (the probes must be sealed during evacuation) until the TOC concentration remains constant for at least 30 seconds.

1.3.2 The constant **TOC concentration shall be measured using an FID** that meets the requirements in Section 3.2.

ALTERNATIVE: PORTABLE ANALYZERS ON AN APPROVED LIST OF EQUIPMENT MAINTAINED BY THE AQMD MAY BE

USED AS ALTERNATIVES FOR THE SAMPLER/INSTRUMENT REQUIREMENTS OF THIS RULE.

1.3.3 Collect approximately a **10-liter** gas sample in a Tedlar (Dupont trade name for polyvinyl) bag or equivalent container over a continuous ten-minute period using the evacuated container sampling procedure described in Section 7.1.1 of EPA Method 18 or direct pump sampling procedure described in Section 7.1.2 of EPA Method 18. The container shall be LIGHT-SEALED.

1.4 Subsurface Refuse Boundary Probe Analytical Procedures

All samples collected shall be analyzed no later than 72 hours after collection for TOC using U.S. EPA Method 25, 40 CFR, Part 60, Appendix A analysis or a portable FID that meets the requirements in Section 3.2 and for the TAC specified in Table 1 and upon written request, Table II, using U.S. EPA Compendium Method TO-14.

1.5 Chain of Custody (Required for samples sent to the lab)

A custody sheet shall accompany the bag samples. Each time a bag changes hands, it shall be logged on the custody sheet with the time of custody transfer recorded. Laboratory personnel shall record the condition of the sample (full, three-fourths full, one-half full, one-fourth full, or empty). An example of a custody sheet is shown in Figure 4.

1.6 Recording the Results

1.6.1 Record the volume concentration of TOC measured as methane for each individually identified refuse boundary probe (at each depth) and the volume concentration of TAC for selected probes on a quality control sheet as shown in Figure 3. Include a topographic map drawn to scale with the location of both the refuse boundary probes and the gas collection system clearly marked and identified.

1.6.2 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.

2.0 INTEGRATED LANDFILL SURFACE SAMPLING

Paragraph (d)(5) and (e)(2) Requirements of Rule 1150.1

2.1 Number of Samples

The number of samples collected will depend on the area of the landfill surface. The entire landfill disposal area shall be divided into individually identified 50,000 square foot grids. One monthly sample shall be collected from each grid for analysis. Any area that the Executive Officer deems inaccessible or dangerous for a technician to enter may be excluded from the sampling grids monitored by the landfill owner or operator. **To exclude an area from monitoring, the landfill owner or operator shall file a written request with the Executive Officer. Such a request shall include an explanation of the requested exclusion and photographs of the area. The Executive Officer shall notify the landfill owner or operator in writing of the decision.** Any exclusion granted shall apply only to the monitoring requirement. The 50 ppmv limit specified in paragraph (d)(5) of Rule 1150.1 applies to all areas.

ALTERNATIVE: SAMPLING IS NOT REQUIRED FOR THE FOLLOWING LANDFILL SURFACES: PORTIONS OF SLOPES 30 DEGREES AND GREATER, PAVED SURFACES EXCEPT FOR CRACKS, THE ACTIVE WORKING FACE, THE MAIN HAUL ROAD AND TEMPORARY STOCKPILES FIVE (5) FEET OR MORE IN HEIGHT. A TEMPORARY STOCKPILE DOES NOT INCLUDE A CLOSED LANDFILL FINAL COVER OR CAP.

2.2 Integrated Surface Sampling Conditions

2.2.1. The average wind speed during this sampling procedure shall be five miles per hour or less. Surface sampling shall be terminated when the average wind speed exceeds five miles per hour or the instantaneous wind speed exceeds ten miles per hour. Average wind speed is determined on a 15-minute average.

2.2.2. **Surface sampling shall be conducted when the landfill is dry. The landfill is considered dry when there has been no measurable precipitation for the preceding 72 hours prior to sampling.** Most major newspapers report the amount of precipitation that has fallen in a 24-hour period throughout the Southern California area. Select the nearest reporting station that represents the landfill location or provide for measurable precipitation collection at the MSW landfill wind monitoring station.

2.3 Integrated Surface Sampler Equipment Description

An integrated surface sampler is a portable self-contained unit with its own internal power source. The integrated sampler consists of a stainless steel collection probe, a rotameter, a pump, and a **10-liter Tedlar bag** enclosed in a LIGHT-SEALED CONTAINER to prevent photochemical reactions from occurring during sampling and transportation. The physical layout of the sampler is shown in Figure 1.

An alternate integrated surface sampler may be used, provided that the landfill owner or operator can show an equivalency with the sampler specifications in Section 2.4 and shown in Figure 1. All alternatives shall be submitted as specified in subdivision (i) of Rule 1150.1.

ALTERNATIVE: PORTABLE ANALYZERS ON AN APPROVED LIST OF EQUIPMENT MAINTAINED BY THE AQMD MAY BE USED AS ALTERNATIVES FOR THE SAMPLER/INSTRUMENT REQUIREMENTS OF THIS RULE.

2.4 Integrated Surface Sampler Equipment Specifications

2.4.1 Power: Batteries or any other power source.

2.4.2 Pump: The diaphragm shall be made of non-lubricated Viton (Dupont trade name for co-polymer of hexafluoropropylene and vinylidene fluoride) rubber.

2.4.3 Bag: One 10-liter Tedlar bag with a valve. The Tedlar bag shall be contained in a LIGHT-SEALED CONTAINER. The valve shall be leak free and constructed of aluminum, stainless steel, or non-reactive plastic with a Viton or Buna-N (butadiene acrylonitrile co-polymer) o-ring seal.

2.4.4 Rotameter: The rotameter shall be made of borosilicate glass or other non-reactive material and have a flow range of approximately 0-to-1 liter per minute. The scale shall be in milliliters or an equivalent unit. The graduations shall be spaced to facilitate accurate flow readings.

2.4.5 Air Flow Control Orifice: Needle valve in the rotameter.

2.4.6 Funnel: 316 stainless steel.

2.4.7 Fittings, Tubing and Connectors: 316 stainless steel or Teflon.

2.5 Integrated Surface Sampling Procedure

2.5.1 An integrated surface sampler as described in Section 2.4 shall be used to collect a surface sample approximately 8-to-10 liters from each grid.

2.5.2 During sampling, the probe shall be placed 0-to-3 inches above the landfill surface.

2.5.3 The sampler shall be set at a flow rate of approximately 333 cubic centimeters per minute

2.5.4 **Walk through a course of approximately 2,600 linear feet over a continuous 25-minute period.** Figure 2 shows a walk pattern for the 50,000 square foot grid.

ALTERNATIVE: THE LANDFILL SAMPLING GRIDS ARE DIVIDED INTO THREE TYPES CONSISTING OF TYPE "A", TYPE "B" AND TYPE "C" AS REFERENCED IN THE MAP SUBMITTED 4/27/00 OR THE MOST RECENT UPDATE, WITH SHEET TITLE "PLAN-INTEGRATED SURFACE EMISSIONS MONITORING GRIDS". THE THREE TYPES OF GRIDS ARE DEFINED AS: TYPE "A" - NO EXCLUSIONS FROM SAMPLING; TYPE "B" - CONTAINING STEEP SLOPES OR STEEP SLOPES AND DENSE VEGETATION ON GRIDS 121, 122, 128, AND 130; AND TYPE "C" - THE AREA OF ACTIVE RECYCLING OPERATIONS. THE TOPOGRAPHIC MAP SHALL BE DRAWN TO SCALE CLEARLY IDENTIFYING TOPOGRAPHICAL FEATURES OF THE LANDFILL WITH CONTOUR LINES. THE LOCATION OF ALL SAMPLING GRIDS AND THE GAS COLLECTION SYSTEM SHALL BE CLEARLY MARKED AND IDENTIFIED. THE SUBMITTED TOPOGRAPHICAL MAP WILL BE FILED IN THE APPLICATION FOLDER AND USED FOR COMPLIANCE. A SMALLER 11" BY 17" TOPOGRAPHICAL MAP IS ATTACHED TO THIS PLAN FOR FIELD REFERENCE. THE TOPOGRAPHICAL MAPS SHALL BE CONFIRMED OR UPDATED ANNUALLY BY THE OWNER/OPERATOR OR AS REQUESTED BY THE EXECUTIVE OFFICER.

SAMPLING OF TYPE "A" SURFACE GRIDS SHALL BE ACCORDING TO THE RULE.

SAMPLING OF TYPE "B" SURFACE GRIDS SHALL CONSIST OF SAMPLING THE TOE OF GRIDS 121, 128, AND 130 AND THE TOP OF GRID 122. VACUUM READINGS FROM ALL GAS EXTRACTION WELLS LOCATED ON TYPE "B" GRIDS SHALL BE RECORDED MONTHLY AND INCLUDED IN THE QUARTERLY REPORT. GRIDS 121 AND 122 EACH DEFINED AS A TYPE "B" GRID, SHALL BE REDESIGNATED AS A TYPE "A" GRID WHEN ENOUGH ADDITIONAL REFUSE HAS BEEN PUT IN PLACE.

SAMPLING OF TYPE "C" SURFACE GRIDS SHALL CONSIST OF SAMPLING A COURSE OF APPROXIMATELY 2,600 LINEAR FEET BUT NOT LESS THAN 1900 LINEAR FEET IN EACH GRID FOR A CONTINUOUS 25-MINUTE PERIOD EXCLUDING STOCKPILES, STORED EQUIPMENT AND RECYCLING EQUIPMENT. RULE 1150.1, ATTACHMENT A, FIGURE 2 SHOWS A 50,000 SQUARE FOOT GRID WALK PATTERN THAT WILL BE MODIFIED TO AVOID THE EXCLUSIONS. VACUUM READINGS FROM ALL GAS EXTRACTION WELLS LOCATED ON TYPE "C" ACTIVE RECYCLING GRIDS SHALL BE RECORDED MONTHLY AND INCLUDED IN THE QUARTERLY REPORT.

2.6 Integrated Surface Sample Analytical Procedures

All samples collected shall be analyzed no later than 72 hours after collection for TOC using U.S. EPA Method 25, 40 CFR, Part 60, Appendix A analysis or a portable FID that meets the requirements in Section 3.2. In addition, the samples specified in Section 2.6.1 or 2.6.2 must be analyzed no later than 72 hours after collection for the TAC specified in Table 1 and upon written request, Table II, using U.S. EPA Compendium Method TO-14.

2.6.1 Ten percent of all samples which have a concentration of TOC greater than 50 ppmv as methane, or

2.6.2 Two samples if all samples are 50 ppmv or less of TOC or two samples if there are less than 20 samples above 50 ppmv.

The Executive Officer may require more samples to be tested for TAC if he determines there is a potential nuisance or public health problem.

2.7 Chain of Custody (Required for samples sent to the lab)

A custody sheet shall accompany the bag samples. Each time a bag changes hands, it shall be logged on the custody sheet with the time of custody transfer recorded. Laboratory personnel shall record the condition of the sample (full, three-fourths full, one-half full, one-fourth full, or empty). An example of a custody sheet is shown in Figure 4.

2.8 Recording the Results

2.8.1 Record the volume concentration of both TOC measured as methane for each grid and the volume concentration for the required TAC on a quality control sheet as shown in Figure 3. Include a topographic map drawn to scale with the location of the grids and the gas collection system clearly marked and identified.

2.8.2 Record the wind speed during the sampling period using the wind speed and direction monitoring system required in paragraph (d)(9) of Rule 1150.1.

2.8.3 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.

3.0 INSTANTANEOUS LANDFILL SURFACE MONITORING
Subparagraph (d)(6) and (e)(3) Requirements of Rule 1150.1

3.1 Monitoring Area

The entire landfill disposal area shall be monitored once each calendar quarter. Any area of the landfill that the Executive Officer deems as inaccessible or dangerous for a technician to enter may be excluded from the area to be monitored by the landfill owner or operator. **To exclude an area from monitoring, the landfill owner or operator shall file a petition with the Executive Officer.** Such a request shall include an explanation of why the area should be excluded and photographs of the area. Any excluded area granted shall only apply to the monitoring requirement. The 500 ppmv limit specified in paragraph (d)(6) of Rule 1150.1 applies to all areas.

ALTERNATIVE: MONITORING IS NOT REQUIRED FOR THE FOLLOWING LANDFILL SURFACES: PORTIONS OF SLOPES 30 DEGREES AND GREATER, PAVED SURFACES EXCEPT FOR CRACKS, THE ACTIVE WORKING FACE, THE MAIN HAUL ROAD

AND TEMPORARY STOCKPILES FIVE (5) FEET OR MORE IN HEIGHT. A TEMPORARY STOCKPILE DOES NOT INCLUDE A CLOSED LANDFILL FINAL COVER OR CAP.

3.2 Equipment Description and Specifications

A portable FID shall be used to instantaneously measure the concentration of TOC measured as methane at any location on the landfill. The FID shall meet the specifications listed in Sections 3.2.1 through 3.2.4 and shall be kept in good operating condition.

3.2.1 The portable analyzer shall meet the instrument specifications provided in Section 3 of U.S. EPA Method 21, except that:

3.2.1.1 "Methane" shall replace all references to VOC.

3.2.1.2 A response time of 15 seconds or shorter shall be used instead of 30 seconds.

3.2.1.3 A precision of 3% or better shall be used instead of 10%.

In addition the instrument shall meet the specifications in Sections 3.2.1.4 through 3.2.1.6.

3.2.1.4 A minimum detectable limit of 5 ppmv (or lower).

3.2.1.5 A flame-out indicator, audible and visual.

3.2.1.6 Operate at an ambient temperature of 0 - 50°C.

3.2.2 The calibration gas shall be methane, diluted to a nominal concentration of 10,000 ppmv in air for subsurface refuse boundary probe monitoring and sample analysis to comply with paragraph (e)(1) of Rule 1150.1, 50 ppmv in air for integrated sample analyses to comply with paragraph (e)(2) of Rule 1150.1 and 500 ppmv in air for instantaneous monitoring to comply with paragraph (e)(3) of Rule 1150.1.

3.2.3 To meet the performance evaluation requirements in Section 3.1.3 of U.S. EPA Method 21, the instrument evaluation procedures of Section 4.4 of U.S. EPA Method 21 shall be used.

3.2.4 The calibration procedures provided in Section 4.2 of U.S. EPA Method 21 shall be followed at the beginning of each day before commencing a surface monitoring survey.

3.3 Monitoring Procedures

3.3.1 The owner or operator shall monitor the landfill disposal area for TOC measured as methane using the described portable equipment.

3.3.2 The sampling probe shall be placed at a distance of 0-3 inches above any location of the landfill to take the readings.

3.3.3 At a minimum, an individually identified 50,000 square foot grid shall be used and a walk pattern as illustrated in Figure 2 shall be implemented including areas where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover.

ALTERNATIVE: THE LANDFILL MONITORING GRIDS ARE DIVIDED INTO THREE TYPES CONSISTING OF TYPE "A", TYPE "B" AND TYPE "C" AS REFERENCED IN THE MAP SUBMITTED 4/27/00 OR THE MOST RECENT UPDATE, WITH SHEET TITLE "PLAN-INTEGRATED SURFACE EMISSIONS MONITORING GRIDS". THE THREE TYPES OF GRIDS ARE DEFINED AS: TYPE "A" - NO EXCLUSIONS FROM SAMPLING; TYPE "B" - CONTAINING STEEP SLOPES OR STEEP SLOPES AND DENSE VEGETATION ON GRIDS 121, 122, 128, AND 130; AND TYPE "C" - THE AREA OF ACTIVE RECYCLING OPERATIONS. THE TOPOGRAPHIC MAP SHALL BE DRAWN TO SCALE CLEARLY IDENTIFYING TOPOGRAPHICAL FEATURES OF THE LANDFILL WITH CONTOUR LINES. THE LOCATION OF ALL MONITORING GRIDS AND THE GAS COLLECTION SYSTEM SHALL BE CLEARLY MARKED AND IDENTIFIED. THE SUBMITTED TOPOGRAPHICAL MAP WILL BE FILED IN THE APPLICATION FOLDER AND USED FOR COMPLIANCE. A SMALLER 11" BY 17" TOPOGRAPHICAL MAP IS ATTACHED TO THIS PLAN FOR FIELD REFERENCE. THE TOPOGRAPHICAL MAPS SHALL BE CONFIRMED OR UPDATED ANNUALLY BY THE OWNER/OPERATOR OR AS REQUESTED BY THE EXECUTIVE OFFICER.

MONITORING OF TYPE "A" SURFACE GRIDS SHALL BE ACCORDING TO THE RULE.

MONITORING OF TYPE "B" SURFACE GRIDS SHALL CONSIST OF MONITORING THE TOE OF GRIDS 121, 128, AND 130 AND THE TOP OF GRID 122. VACUUM READINGS FROM ALL GAS EXTRACTION WELLS LOCATED ON TYPE "B" GRIDS SHALL BE RECORDED MONTHLY AND INCLUDED IN THE QUARTERLY REPORT. GRIDS 121 AND 122 EACH DEFINED AS A TYPE "B" GRID, SHALL BE REDESIGNATED AS A TYPE "A" GRID WHEN ENOUGH ADDITIONAL REFUSE HAS BEEN PUT IN PLACE.

MONITORING OF TYPE "C" SURFACE GRIDS SHALL CONSIST OF MONITORING A COURSE OF APPROXIMATELY 2,600 LINEAR FEET BUT NOT LESS THAN 1900 LINEAR FEET IN EACH GRID, EXCLUDING STOCKPILES, STORED EQUIPMENT AND RECYCLING EQUIPMENT. RULE 1150.1, ATTACHMENT A, FIGURE 2 SHOWS A 50,000 SQUARE FOOT GRID WALK PATTERN THAT WILL BE MODIFIED TO AVOID THE EXCLUSIONS. VACUUM READINGS FROM ALL GAS EXTRACTION WELLS LOCATED ON TYPE "C" RECYCLING GRIDS SHALL BE RECORDED MONTHLY AND INCLUDED IN THE QUARTERLY REPORT.

3.4 Recording the Results

3.4.1 Record the location and concentration of TOC measured as methane for any instantaneous reading of 500 ppmv or greater on a topographic map of the landfill, drawn to scale with the location of both the grids and the gas collection system clearly marked and identified.

3.4.2 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.

4.0 LANDFILL GAS SAMPLE FROM GAS COLLECTION SYSTEM Subparagraph (e)(4) Requirement of Rule 1150.1

4.1 Number of Samples

Collect one monthly sample of landfill gas for analysis from the main gas collection header line entering the gas treatment and/or gas control system(s).

4.2 Sampling Procedure

Collect approximately a 10-liter sample in a Tedlar bag or equivalent container over a continuous ten-minute period.

4.3 Analytical Procedures

Samples collected shall be analyzed no later than 72 hours after collection for TOC using U.S. EPA Method 25, 40 CFR, Part 60, Appendix A analysis and for the TAC specified in Table 1 and upon written request, Table II, using U.S. EPA Compendium Method TO-14.

4.4 Chain of Custody (Required for samples sent to the lab)

A custody sheet shall accompany the bag samples. Each time a bag changes hands, it shall be logged on the custody sheet with the time of custody transfer recorded. Laboratory personnel shall record the condition of the sample (full, three-fourths full, one-half full, one-fourth full, or empty). An example of a custody sheet is shown in Figure 4.

4.5 Recording the Results

4.5.1 Record the volume concentration of both TOC measured as methane and the volume concentration for the required TAC on a quality control sheet as shown in Figure 3. Include a topographic map drawn to scale with the location of the gas collection and control system clearly marked and identified.

4.5.2 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.

5.0 AMBIENT AIR SAMPLES AT THE LANDFILL PROPERTY BOUNDARY Subparagraph (e)(5) Requirement of Rule 1150.1

5.1 Number of Samples

Monthly ambient air samples shall be collected for analysis at the landfill property boundary from both an upwind and downwind sampler sited to provide good meteorological exposure to the predominant offshore (drainage land breeze) and onshore (sea breeze) wind flow patterns. The upwind and downwind samples shall be collected simultaneously over two 12 hour periods beginning between 9:00 a.m. and 10:00 a.m., and 9:00 p.m. and 10:00 p.m. on the same day or different days.

5.2 Ambient Air Sampling Conditions

Ambient air sampling shall be conducted on days when stable (offshore drainage) and unstable (onshore sea breeze) meteorological conditions are representative for the season. Preferable sampling conditions are characterized by the following meteorological conditions:

5.2.1 Clear cool nights with wind speeds of two miles per hour or less, and

5.2.2 Onshore sea breezes with wind speeds ten miles per hour or less.

No sampling will be conducted if the following adverse meteorological conditions exist:

5.2.3 Rain,

5.2.4 Average wind speeds greater than 15 miles per hour for any 30-minute period, or

5.2.5 Instantaneous wind speeds greater than 25 miles per hour.

Continuously recorded on-site wind speed and direction measurements required in paragraph (d)(9) of Rule 1150.1 will characterize the micrometeorology of the site and serve to verify that the meteorological criteria have been met during sampling.

5.3 Ambient Air Sampler Equipment Description

An ambient air sampling unit consists of a 10-liter Tedlar bag, a DC-operated pump, stainless steel capillary tubing to control the sample rate to the bag, a bypass valve to control the sample flow rate (and minimize back pressure on the pump), a Rotameter for flow indication to aid in setting the flow, a 24-hour clock timer to shut off the sampler at the end of the 24-hour sampling period, and associated tubing and connections (made of stainless steel, Teflon, or borosilicate glass to minimize contamination and reactivity). The physical layout of the sampler is shown in Figure 5.

An alternate ambient air sampler may be used, provided that the landfill owner or operator can show an equivalency with the sampler specifications in Section 5.3 and shown in Figure 5. All alternatives shall be submitted as specified in subdivision (i) of Rule 1150.1.

5.4 Ambient Air Sampler Equipment Specifications

The equipment used when conducting air samples at any landfill property boundary shall meet the following specifications:

5.4.1 Power: one 12V DC marine battery. The marine battery provides 12V DC to the pump and the clock.

5.4.2 Pump: one 12V DC pump. The diaphragm shall be made of non-lubricated Viton rubber. The maximum pump unloaded flow rate shall be 4.5 liters per minute.

5.4.3 Bag: One **10-liter Tedlar bag** with a valve. The Tedlar bag shall be enclosed in a LIGHT-SEALED CONTAINER. The valve is a push-pull type constructed of aluminum and stainless steel, with a Viton or Buna-N (butadiene acrylonitrile co-polymer) o-ring seal.

5.4.4 Rotameter - made of borosilicate glass and has a flow range of 3-to-50 cubic centimeters per minute. The scale is in millimeters (mm) with major graduations (labeled) every 5 mm and minor graduations every 1 mm.

5.4.5 Air flow control orifice: 316 stainless steel capillary tubing.

5.4.6 Bypass valve.

5.4.7 Fittings, tubing, and connectors -- 315 stainless steel or Teflon.

5.4.8 Clock timer with an accuracy of better than 1%.

5.5 Ambient Air Sample Analytical Procedures

Samples collected must be analyzed no later than 72 hours after collection for TOC using U.S. EPA Method 25, 40 CFR, Part 60, Appendix A analysis or a portable FID that meets the requirements in Section 3.2 and for the TAC specified in Table 1 and upon written request, Table II, using U.S. EPA Compendium Method TO-14.

5.6 Chain of Custody (Required for samples sent to the lab)

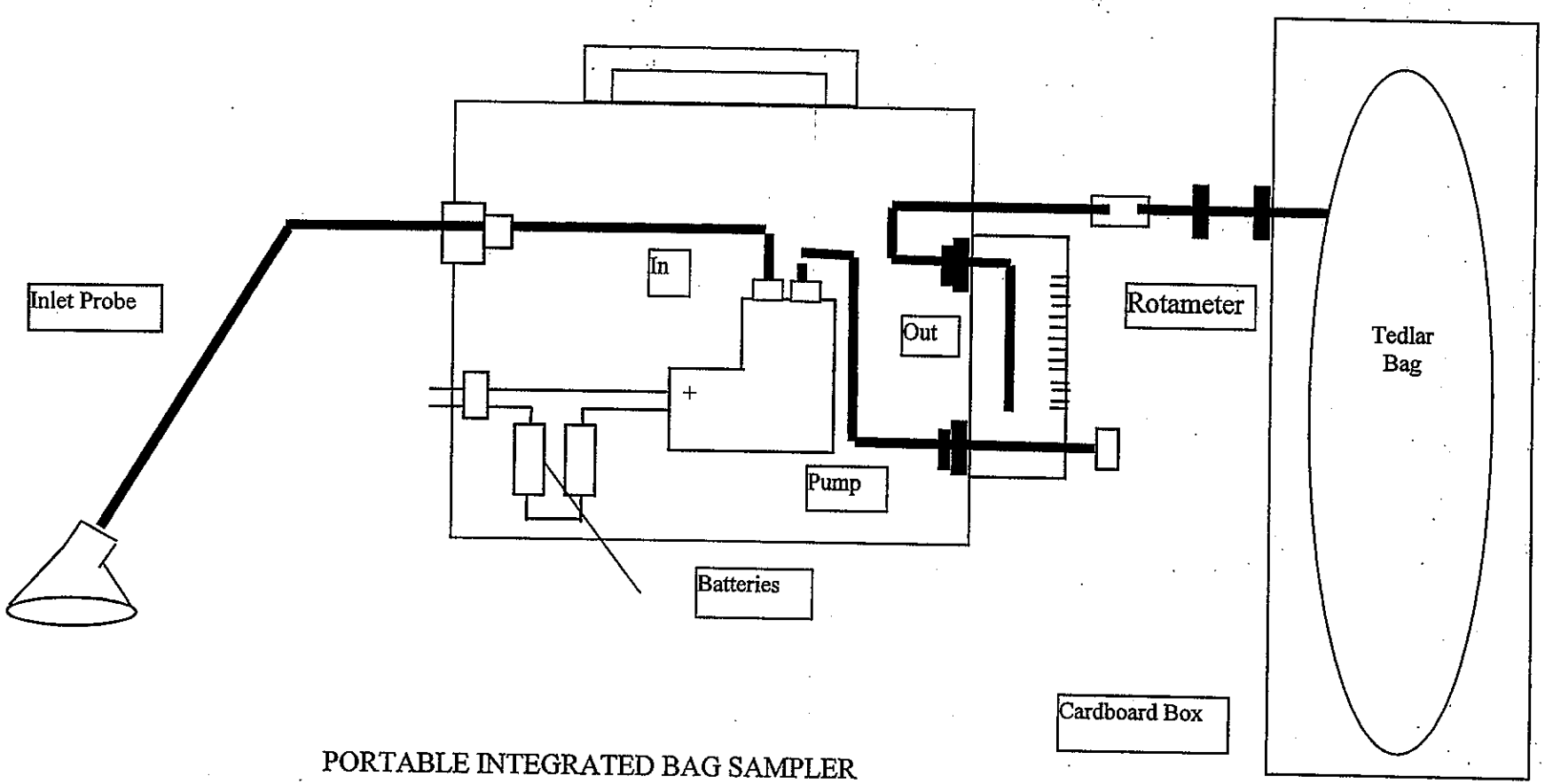
A custody sheet shall accompany the bag samples. Each time a bag changes hands, it shall be logged on the custody sheet with the time of custody transfer recorded. Laboratory personnel shall record the condition of the sample (full, three-fourths full, one-half full, one-fourth full, or empty). An example of a custody sheet is shown in Figure 4.

5.7 Recording the Results

5.7.1 Record the volume concentration of TOC measured as methane and the volume concentration of TAC for each sample on a quality control sheet as shown in Figure 3. Include a topographic map drawn to scale with the location of both the upwind and downwind samplers and the gas collection and control system clearly marked and identified.

5.7.2 Record the wind speed and direction during the 24-hour sampling period using the wind speed and direction monitoring system required in paragraph (d)(9) of Rule 1150.1.

5.7.3 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.



PORTABLE INTEGRATED BAG SAMPLER
Physical Layout

Figure 1

Typical Landfill Walk Pattern
for a 50,000 Square Foot Grid

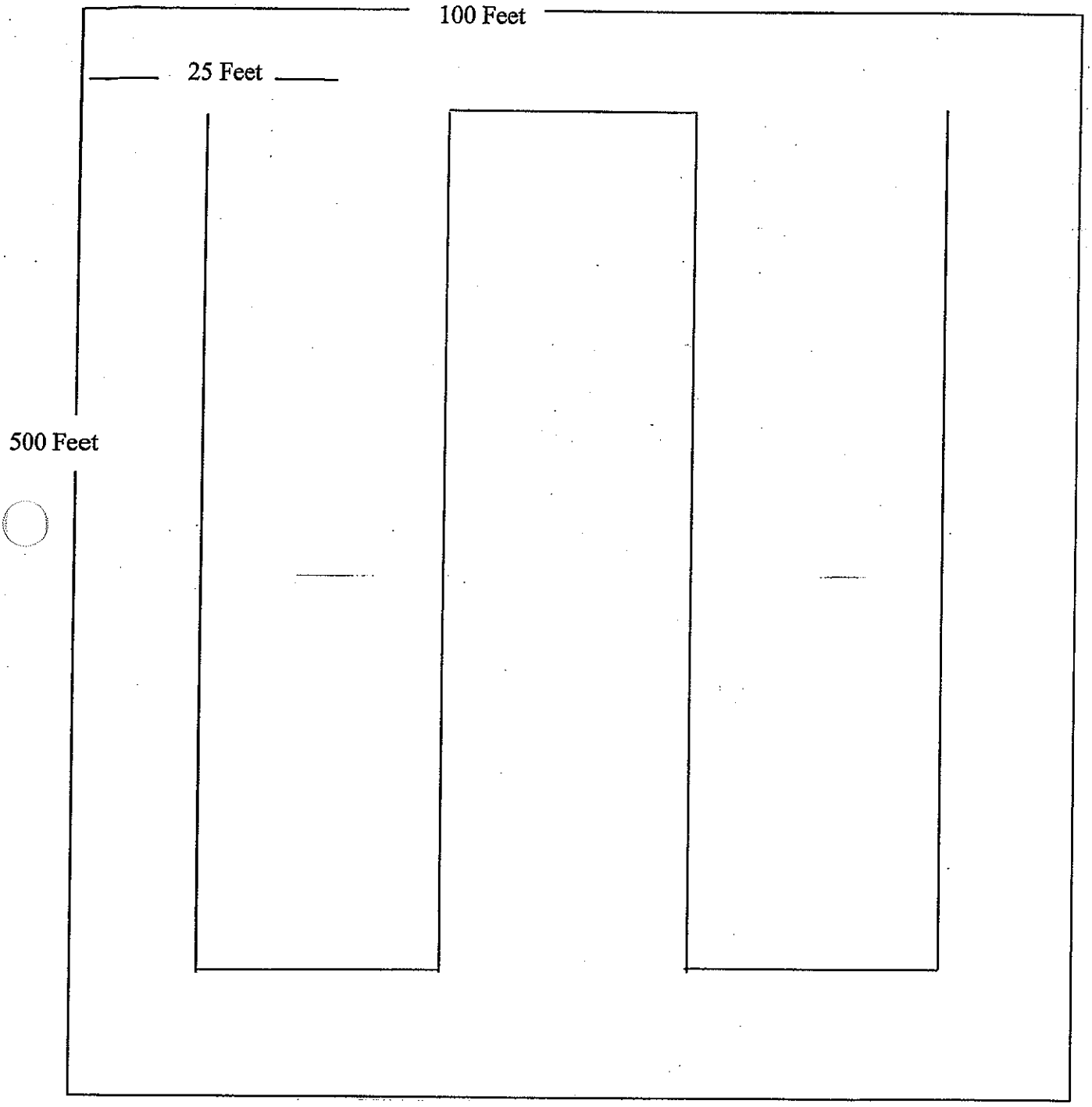


Figure 2

QUALITY CONTROL SHEET

- Prior to use, the Tedlar bag system shall be leak checked, evacuated and filled with purified nitrogen three times to flush out the old sample.
- All samples must be kept in LIGHT-SEALED CONTAINERS to avoid photochemical reactions.

OPERATION					BAG SAMPLES				COMMENTS
Grid or probe #	Date	Wind Speed	Time On	Time Off	I.D.#	Valve Open	Rotameter Reading	Pump (On/Off)	
Signature:									

Figure 3

BAG SAMPLE CUSTODY FORM

Project _____ Date: _____

Bag (I.D. #)									
Condition Received in Lab*									

Bags Prepared By: _____ Time: _____

Date: _____

Bags Taken Out By: _____ Time: _____

Bags Taken to Lab By _____

Bags Received In Lab By: _____ Time _____

* F = 1/2 full to full, 0 = Overfull (Bulging), L = 1/4 to 1/2 full,
E = Less than 1/4 full but contains some sample, N = No sample at all.

Figure 4

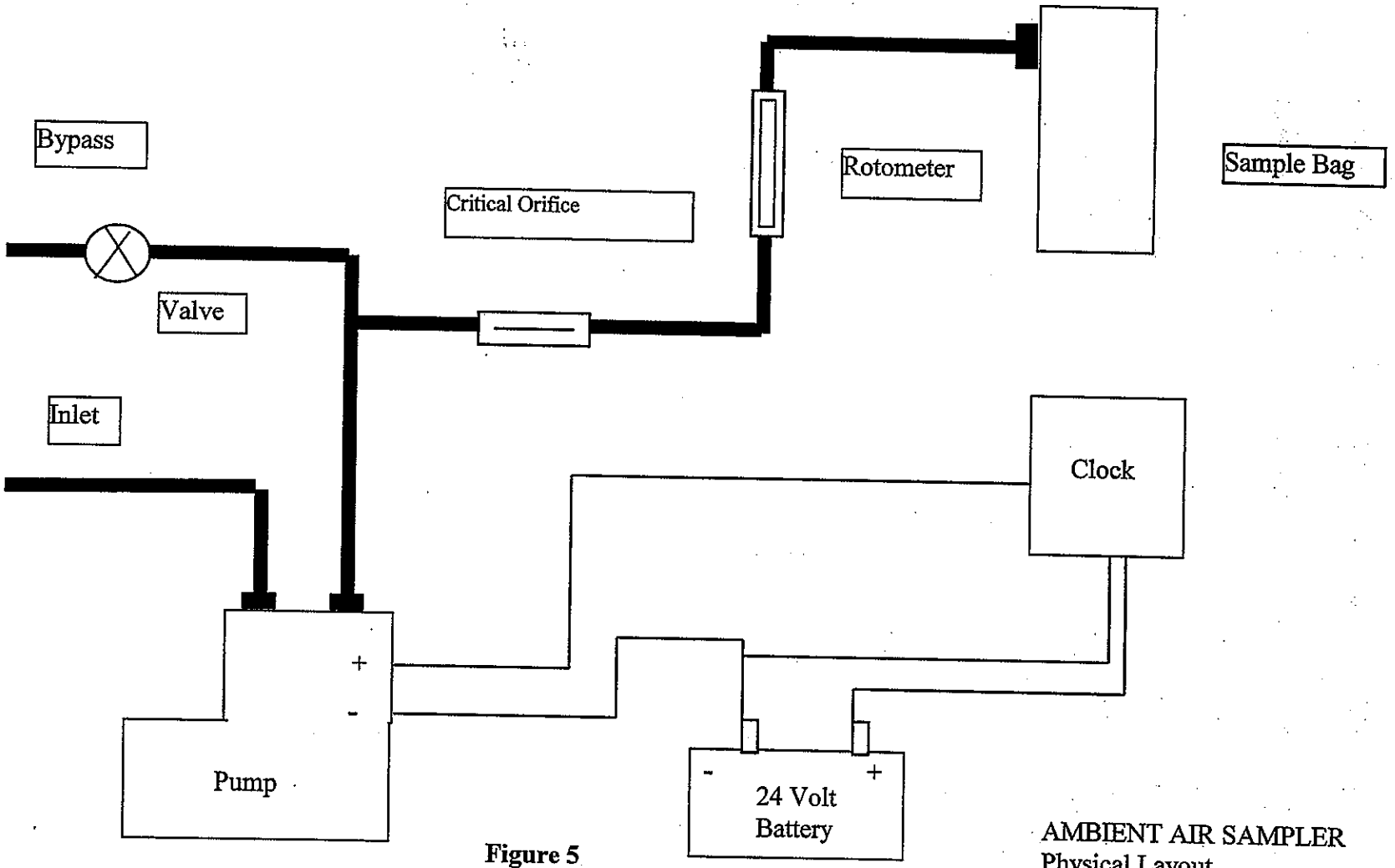


Figure 5

AMBIENT AIR SAMPLER
Physical Layout

TABLE 1 - CARCINOGENIC AND TOXIC AIR CONTAMINANTS (Core Group)

Paragraph (e)(2), Subparagraphs (k)(3)(F) and (k)(3)(G) Requirements of Rule 1150.1

1.	Benzene	C_6H_6
2.	Benzyl Chloride	$C_6H_5H_2C1$
3.	Chlorobenzene	C_6H_5C1
4.	1,2 Dibromoethane (Ethylene Dibromide)	$BrCH_2CH_2Br$
5.	Dichlorobenzene	$C_6H_4C1_2$
6.	1,1 Dichloroethane (Ethylidene Chloride)	CH_3CHC1_2
7.	1,2 Dichloroethane (Ethylene Dichloride)	$C1H_2H_2C1$
8.	1,1 Dichloroethene (Vinylidene Chloride)	$CH_2 : CC1_2$
9.	Dichloromethane (Methylene Chloride)	CH_2C1_2
10.	Hydrogen Sulfide	H_2S
11.	Tetrachloroethylene (Perchloroethylene)	$C1_2C : CC1_2$
12.	Tetrachloromethane (Carbon Tetrachloride)	$CC1_4$
13.	Toluene	$C_6H_5CH_3$
14.	1,1,1 Trichloroethane (Methyl Chloroform)	CH_3CC1_3
15.	Trichloroethylene	$CHC1 : CC1_2$
16.	Trichloromethane (Chloroform)	$CHC1_3$
17.	Vinyl Chloride	$CH_2 : CHC1$
18.	Xylene	$C_6H_4(CH_3)_2$

TABLE 2 - CARCINOGENIC AND TOXIC AIR CONTAMINANTS (Supplemental Group)

Paragraph (e)(2), Subparagraphs (k)(3)(F) and (k)(3)(G) Requirements of Rule 1150.1

1.	Acetaldehyde	CH3CHO
2.	Acrolein	CH2CHCHO
3.	Acrylonitrile	H2C : CHCN
4.	Allyl Chloride	H2C : CHCH2C1
5.	Bromomethane (Methyl Bromide)	CH3Br
6.	Chlorinated Phenols	
7.	Chloroprene	H2C : CHCC1 : CH2
8.	Cresol	CH3C6H4OH
9.	Dialkyl Nitrosamines	
10.	1,4 - Dioxane	OCH2CH2OCH2CH2
11.	Epichlorohydrin	CH2OCHCH2C1
12.	Ethylene Oxide	CH2CH2O
13.	Formaldehyde	HCHO
14.	Hexachlorocyclopentadiene	C5C16
15.	Nitrobenzene	C6H5NO2
16.	Phenol	C6H5OH
17.	Phosgene	COC12
18.	Polychlorinated Dibenzo-P-Dioxin	
19.	Polychlorinated Dibenzo Furan	
20.	Polychlorinated Biphenols	
21.	Polynuclear Aromatic Hydrocarbons	
22.	Propylene Oxide	CH2-CH-CH3
23.	Tetrahydrothiophene	CH2CH2CH2CH2S
24.	Thiophene	CHCHCHCHS

Attachment B

TITLE 27. Environmental Protection

Division 2. Solid Waste

Subdivision 1. Consolidated Regulations for Treatment, Storage, Processing or Disposal of Solid

Chapter 3. Criteria for All Waste Management Units, Facilities, and Disposal Sites
Subchapter S. Closure and Post-Closure Maintenance
Article 2. Closure and Post-Closure Maintenance Standards for Disposal Sites and Landfills

§21140. Section CIWMB -- Final Cover. (Tl4:§17773)

(a) The final cover shall function with minimum maintenance and provide waste containment to protect public health and safety by controlling at a minimum, vectors, fire, odor, litter and landfill gas migration. The final cover shall also be compatible with postclosure land use.
(b) In proposing a final cover design meeting the requirements under §21090, the owner or operator shall assure that the proposal meets the requirements of this section. Alternative final cover designs shall meet the performance requirements of ¶(a) and, for MSWLF units, 40 CFR 258.60(b); shall be approved by the enforcement agency for aspects of ¶(a).
(c)The EA may require additional thickness, quality, and type of final cover depending on, but not limited to the following:
(1) a need to control landfill gas emissions and fires;
(2) the future reuse of the site; and
(3) provide access to all areas of the site as needed for inspection of monitoring and control facilities, etc.

NOTE

Authority cited: Sections 40502 and 43020, Public Resources Code; and Section 66796.22 (d), Government Code. Reference: Sections 43021 and 43103, Public Resources Code; and Section 66796.22(d), Government Code.

HISTORY

1. New section filed 6-18-97; operative 7-18-97 (Register 97, No. 25).

Attachment C

TITLE 27. Environmental Protection

Division 2. Solid Waste

Subdivision 1. Consolidated Regulations for Treatment, Storage, Processing or Disposal of Solid

Chapter 3. Criteria for All Waste Management Units, Facilities, and Disposal Sites

Subchapter 2. Siting and Design

Article 2. SWRCB -- Waste Classification and Management

§20200. SWRCB -- Applicability and Classification Criteria. (CI5: §2520)

(a) Concept--This article contains a waste classification system which applies to solid wastes that cannot be discharged directly or indirectly to waters of the state and which therefore must be discharged to waste management units (Units) for treatment, storage, or disposal in accordance with the requirements of this division. Wastes which can be discharged directly or indirectly *(e.g., by percolation)* to waters of the state under effluent or concentration limits that implement applicable water quality control plans *(e.g., municipal or industrial effluent or process wastewater)* are not subject to the SWRCB-promulgated provisions of this division. This waste classification system shall provide the basis for determining which wastes may be discharged at each class of Unit. Waste classifications are based on an assessment of the potential risk of water quality degradation associated with each category of waste.

(1) The waste classifications in this article shall determine where the waste can be discharged unless the waste does not consist of or contain municipal solid waste (MSW) and the discharger establishes to the satisfaction of the RWQCB that a particular waste constituent or combination of constituents presents a lower risk of water quality degradation than indicated by classification according to this article.

(2) Discharges of wastes identified in §20210 or §20220 of this article shall be permitted only at Units which have been approved and classified by the RWQCB in accordance with the criteria established in Article 3 of this subchapter, and for which WDRs have been prescribed or waived pursuant to Article 4, Subchapter 3, Chapter 4 of this subdivision (§21710 et seq.). Table 2.1 (of this article) presents a summary of discharge options for each waste category.

(b) Dedicated Units/Cells For Certain Wastes--The following wastes shall be discharged only at dedicated Units [or dedicated landfill cells *(e.g., ash monofill cell)*] which are designed and constructed to contain such wastes:

(1) wastes which cause corrosion or decay, or otherwise reduce or impair the integrity of containment structures;

(2) wastes which, if mixed or commingled with other wastes can produce a violent reaction (including heat, pressure, fire or explosion), can produce toxic byproducts, or can produce any reaction product(s) which:

(A) requires a higher level of containment;

(B) is a restricted waste; or

(C) impairs the integrity of containment structures.

(c) Waste Characterization--Dischargers shall be responsible for accurate characterization of

wastes, including determinations of whether or not wastes will be compatible with containment features and other wastes at a Unit under ¶(b), and whether or not wastes are required to be managed as hazardous wastes under Chapter 11 of Division 4.5 of Title 22 of this code.
(d) Management of Liquids at Landfills and Waste Piles--The following requirements apply to discharges of liquids at Class II waste piles and at Class II and Class III landfills, except as otherwise required for MSW landfills by more-stringent state and federal requirements under SWRCB Resolution No. 93-62 section 2908 of Title 23 of this Code (see 40CFR258.28) *[Note: see also definitions of "leachate" and "landfill gas condensate"* in §20164*]:*
(1) [Reserved.];

(2) wastes containing free liquids shall not be discharged to a Class II waste pile. Any waste that contains liquid in excess of the moisture-holding capacity of the waste in the Class II landfill, or which contains liquid in excess of the moisture-holding capacity as a result of waste management operations, compaction, or settlement shall only be discharged to a surface impoundment or to another Unit with containment features equivalent to a surface impoundment; and
(3) liquids or semi-solid waste (i.e., waste containing less than 50 percent solids, by weight), other than dewatered sewage or water treatment sludge as described in §20220(c), shall not be discharged to Class III landfills. Exceptions may be granted by the RWQCB if the discharger can demonstrate that such discharge will not exceed the moisture-holding capacity of the landfill, either initially or as a result of waste management operations, compaction, or settlement, so long as such discharge is not otherwise prohibited by applicable state or federal requirements.

APPENDIX B

SUBSURFACE PERIMETER PROBE MONITORING

- Field Sheets
- Laboratory Analysis
- Sample Chain-of-Custody
- Instrumentation Calibration

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. 341)

BAROMETRIC (before): 29.83"
BAROMETRIC (after): 29.82"

TECHNCIAN: E. MARTINEZ

DATE: 4/1/04 DATE: DATE:

START TIME: 1300 HRS.
FINISH TIME: 1400 HRS.

START TIME:
FINISH TIME:

START TIME:
FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	+	ND
W2B		
W-3S		
W.3M	+	ND
W-3D	+.3"	ND
W-4		
W-5S		
W-5M		
W-5D	+.3"	ND
W-6		
W-7S		
W-7M		
W-7D	+.1"	ND
W 8		
W-9A		
W-9B		
W-10S		
W-10M	+.3"	ND
W-10D	+.1"	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2R		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S 9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E 1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E 13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A. Section J.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4
* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. 341)

BAROMETRIC (before): 29.74"
BAROMETRIC (after): 29.73"

TECHNICIAN: E. MARTINEZ

DATE: 4/2/04 DATE: 4/2/04 DATE: 4/2/04

START TIME: 1315 HRS. START TIME: 1407 HRS. START TIME: 1415 HRS.
FINISH TIME: 1405 HRS FINISH TIME: 1410 HRS. FINISH TIME: 1445 HRS.

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	ϕ	ND
W2B		
W-3S		
W-3M	-.1"	ND
W-3D	-.2"	ND
W-4		
W-5S		
W-5M		
W-5D	-.2"	ND
W-6		
W-7S		
W-7M		
W-7D	-.4"	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	ϕ	ND
W-10D	ϕ	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-.1"	ND
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	ϕ	ND

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1	ϕ	ND
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	ϕ	ND
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		ND
E-12		
E-13		
E-14S		
E-14M	ϕ	ND
E-14D	-.2"	ND

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4
* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07189027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. 341)

BAROMETRIC (before): 30.02"
BAROMETRIC (after): 30.00"

TECHNICIAN: E. MARTINEZ

DATE: 4/5/04 DATE: _____ DATE: _____

START TIME: 1310 HRS. START TIME: _____ START TIME: _____
FINISH TIME: 1400 HRS. FINISH TIME: _____ FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	+	ND
W2B		
W-3S		
W-3M	-.1"	ND
W-3D	-.1"	ND
W-4		
W-5S		
W-5M		
W-5D	-.2"	ND
W-6		
W-7S		
W-7M		
W-7D	-.4"	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-.2"	ND
W-10D	+	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4
* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. 341)

TECHNICIAN: E. MARTINEZ

BAROMETRIC (before): 30.05"
BAROMETRIC (after): 30.04"

DATE: 4/6/04

START TIME: 1230 HRS.
FINISH TIME: 1310 HRS.

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	⊥	ND
W2B		
W-3S		
W-3M	-.1"	ND
W-3D	-.3"	ND
W-4		
W-5S		
W-5M		
W-5D	-.4"	ND
W-6		
W-7S		
W-7M		
W-7D	-.6"	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-.4"	ND
W-10D	⊥	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	⊥	ND
W-14M		
W-14D		

DATE: 4/6/04

START TIME: 1312 HRS.
FINISH TIME: 1315 HRS.

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	⊥	ND

DATE: 4/6/04

START TIME: 1320 HRS.
FINISH TIME: 1355 HRS.

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1	⊥	ND
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	⊥	ND
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-.6"	ND
E-12		
E-13		
E-14S		
E-14M	⊥	ND
E-14D	-.3"	ND

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4
* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. E1257)

BAROMETRIC (before): 29.96"
BAROMETRIC (after): 29.94"

TECHNICIAN: E. MARTINEZ

DATE: 4/7/04 DATE: DATE:

START TIME: 1315 HRS. START TIME: START TIME:
FINISH TIME: 1420 HRS. FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	ϕ	ND
W2B		
W-3S		
W-3M	ϕ	ND
W-3D	ϕ	ND
W-4		
W-5S		
W-5M	ϕ	ND
W-5D	ϕ	ND
W-6		
W-7S		
W-7M	-.7"	ND
W-7D	+.1"	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+.2"	ND
W-10D	+.1"	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4
* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. E1257)

BAROMETRIC (before): 29.95"
BAROMETRIC (after): 29.93"

TECHNICIAN: E. MARTINEZ

DATE: 4/8/04 DATE: DATE:

START TIME: 1320 HRS. START TIME: START TIME:
FINISH TIME: 1480 HRS. FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	ϕ	ND
W2B		
W-3S		
W-3M	ϕ	ND
W-3D	ϕ	ND
W-4		
W-5S		
W-5M	ϕ	ND
W-5D	ϕ	ND
W-6		
W-7S		
W-7M	-.6"	ND
W-7D	ϕ	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+.1"	ND
W-10D	ϕ	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E 14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conduoted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. E1257)

TECHNICIAN: E. MARTINEZ

BAROMETRIC (before): 29.99"
BAROMETRIC (after): 29.96"

DATE: 4/9/04
START TIME: 1300HRS.
FINISH TIME: 1350HRS.

DATE: 4/9/04
START TIME: 1353HRS.
FINISH TIME: 1355HRS.

DATE: 4/9/04
START TIME: 1400HRS.
FINISH TIME: 1430 HRS.

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	ϕ	ND
W2B		
W-3S		
W-3M	ϕ	ND
W-3D	ϕ	ND
W-4		
W-5S		
W-5M		
W-5D	-.2"	ND
W-6		
W-7S		
W-7M		
W-7D	-.3"	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	ϕ	ND
W-10D	ϕ	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-.3"	ND
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	ϕ	ND

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	ϕ	ND
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	ϕ	ND
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-.5"	ND
E-12		
E-13		
E-14S		
E-14M	ϕ	ND
E-14D	ϕ	ND

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4
* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No.)

BAROMETRIC (before): 30.03
BAROMETRIC (after): 30.02

TECHNCIAN: M. Galdamez.

DATE: 4/12/04

START TIME: 1250 Hrs.
FINISH TIME: 1357 Hrs.

DATE:

START TIME:
FINISH TIME:

DATE:

START TIME:
FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	ϕ	ND
W2B		
W-3S		
W-3M	ϕ	ND
W-3D	ϕ	ND
W-4		
W-5S		
W-5M		
W-5D	ϕ	ND
W-6		
W-7S		
W-7M		
W-7D	-.2	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-.1	ND
W-10D	ϕ	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: **GEM-500 CALIBRATED TO 2.5% CH_4**
* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07195027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No.)

BAROMETRIC (before): 30.03

BAROMETRIC (after): 30.01

TECHNICIAN: M. Galdamez

DATE: 4/13/04

START TIME: 1000 HRS

FINISH TIME: 1500 HRS

DATE: 4/13/04

START TIME:

FINISH TIME:

DATE: 4/13/04

START TIME:

FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	ϕ	ND
W2B		
W-3S		
W-3M	-0.1	ND
W-3D	ϕ	ND
W-4		
W-5S		
W-5M		
W-5D	ϕ	ND
W-6		
W-7S		
W-7M		
W-7D	-0.4	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	ND
W-10D	ϕ	
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.3	ND
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	ϕ	ND

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1	ϕ	ND
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	ϕ	ND
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.4	ND
E-12		
E-13		
E-14S		
E-14M	ϕ	ND
E-14D	ϕ	ND

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No.)

TECHNICIAN: M. Galdamez.

DATE: 4/14/04

START TIME: 1250
FINISH TIME: 1310

BAROMETRIC (before): 30.03
BAROMETRIC (after): 30.02

DATE:

START TIME:
FINISH TIME:

DATE:

START TIME:
FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	ϕ	ND
W2B		
W-3S		
W-3M	- .2	ND
W-3D	- .2	ND
W-4		
W-5S		
W-5M		
W-5D	- .3	ND
W-6		
W-7S		
W-7M		
W-7D	- .4	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	- .3	ND
W-10D	ϕ	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4
* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07198027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. E1257103

BAROMETRIC (before): 30.00"
BAROMETRIC (after): 30.00

TECHNICIAN: M. Galdamez

DATE: 4/15/04 DATE: DATE:

START TIME: 1245 Hrs START TIME: START TIME:
FINISH TIME: 1352 Hrs FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	ϕ	ND
W2B		
W-3S		
W-3M	- .2	ND
W-3D	- .1	ND
W-4		
W-5S		
W-5M		
W-5D	- .2	ND
W-6		
W-7S		
W-7M		
W-7D	- .4	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	- .2	ND
W-10D	ϕ	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4
* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. E 1257)03

TECHNCIAN: M. Galdamez

BAROMETRIC (before): 3001
BAROMETRIC (after): 3000

DATE: 4/16/04
START TIME: 1255
FINISH TIME: 1345

DATE: 4/16/04
START TIME: 1350
FINISH TIME: 1400

DATE: 4/16/04
START TIME: 1405
FINISH TIME: 1440

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	ϕ	ND
W-2B		
W-3S		
W-3M	-.2	ND
W-3D	-.3	ND
W-4		
W-5S		
W-5M		
W-5D	-.3	ND
W-6		
W-7S		
W-7M		
W-7D	-.5	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-.3	ND
W-10D	ϕ	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-.3	ND
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	ϕ	ND

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1	ϕ	ND
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	ϕ	ND
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-.5	ND
E-12		
E-13		
E-14S		
E-14M	-.1	ND
E-14D	-.2	ND

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4
Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No.)

BAROMETRIC (before): 3014

BAROMETRIC (after): 3016

TECHNICIAN: LA INSPECTOR

DATE: 4/19/04 DATE: 4/19/04 DATE:

START TIME: 1345 START TIME: START TIME:

FINISH TIME: FINISH TIME: 1520 FINISH TIME:

PROBE I.D.	STATIC PRESSURE (In W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A		
W2B		
W-3S	0	ND
W-3M	0	ND
W-3D	0	ND
W-4		
W-5S	0	ND
W-5M	0	ND
W-5D	0	ND
W-6		
W-7S	0	ND
W-7M	0	ND
W-7D	0	ND
W-8		
W-9A	0	ND
W-9B	0	ND
W-10S	0	ND
W-10M	0	ND
W-10D	0	ND
W-11		
W-12S	0	ND
W-12M	0	ND
W-12D	0	ND
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (In W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R	0	ND
S-9M1-R	0	ND
S-9M2-R	0	ND
S-9D-R	0	ND
S-10R		
S-11R		
S-12	0	ND

PROBE I.D.	STATIC PRESSURE (In W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/18/02

Project No. 07189027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. E1257103

BAROMETRIC (before): 30.17
BAROMETRIC (after): 30.11

TECHNICIAN: M.A. GALDAMEZ

DATE: 4/20/04	DATE: 4/20/04	DATE: 4/20/04
START TIME: 1245	START TIME: 1335	START TIME: 1345
FINISH TIME: 1333	FINISH TIME: 1337	FINISH TIME: 1420

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	ϕ	ND
W2B		
W-3S		
W-3M	ϕ	ND
W-3D	ϕ	ND
W-4		
W-5S		
W-5M		
W-5D	ϕ	ND
W-6		
W-7S		
W-7M		
W-7D	-.2	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	ϕ	ND
W-10D	ϕ	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-.3	ND
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	ϕ	ND

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1	ϕ	ND
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	ϕ	ND
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	+.4	ND
E-12		
E-13		
E-14S		
E-14M	ϕ	ND
E-14D	ϕ	ND

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4
* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07189027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. E1257/03

BAROMETRIC (before): 29.99"
BAROMETRIC (after): 29.97"

TECHNICIAN: E. MARTINEZ

DATE: 4/21/04 DATE: DATE:

START TIME: 1340 HRS. START TIME: START TIME:
FINISH TIME: 1430 HRS. FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	ϕ	ND
W2B		
W-3S		
W-3M	ϕ	ND
W-3D	ϕ	ND
W-4		
W-5S		
W-5M		
W-5D	ϕ	ND
W-6		
W-7S		
W-7M		
W-7D	-.1"	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+.2"	ND
W-10D	+.1"	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2S		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. E1257/03

BAROMETRIC (before): 29.90"
BAROMETRIC (after): 29.91"

TECHNCIAN: E. MARTINEZ

DATE: 4/22/04 DATE: DATE:

START TIME: 1345
FINISH TIME: 1440

START TIME:
FINISH TIME:

START TIME:
FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	0	ND
W2B		
W-3S		
W-3M	0	ND
W-3D	-.2"	ND
W-4		
W-5S		
W-5M		
W-5D	-.3"	ND
W-6		
W-7S		
W-7M		
W-7D	-.5"	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-.2"	ND
W-10D	0	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. E1257)

BAROMETRIC (before): 30.02"
BAROMETRIC (after): 29.95"

TECHNCIAN: E. MARTINEZ

DATE: 4/23/04 DATE: 4/23/04 DATE: 4/23/04

START TIME: 1315 HRS. START TIME: 1403 HRS START TIME: 1410 HRS.
FINISH TIME: 1400 FINISH TIME: 1405 HRS. FINISH TIME: 1440 HRS.

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	ϕ	ND
W2B		
W-3S		
W-3M	ϕ	ND
W-3D	ϕ	ND
W-4		
W-5S		
W-5M		
W-5D	ϕ	ND
W-6		
W-7S		
W-7M		
W-7D	+.2"	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	ϕ	ND
W-10D	+.1"	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-.4"	ND
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2R		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	ϕ	ND

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1	ϕ	ND
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	ϕ	ND
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-.3"	ND
E-12		
E-13		
E-14S		
E-14M	ϕ	ND
E-14D	ϕ	ND

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4
* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

4/26/04 – 4/27/04

EQUIPMENT USED: Landtec Gem 500 (Serial No. E1257)

BAROMETRIC (before): 30.03"

BAROMETRIC (after): 30.00"

TECHNICIAN: ERNESTO MARTINEZ

DATE: 4/26/04

START TIME: 1000 HRS.

FINISH TIME: 1210 HRS.

DATE: 4/26/04

START TIME: 1215 HRS.

FINISH TIME: 1340 HRS.

DATE:

START TIME:

FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C)	TOC (%CH4)
W-1S	ϕ	ND
W-1M	ϕ	ND
W-1D	ϕ	ND
W-2A	ϕ	ND
W2B	ϕ	ND
W-3S	ϕ	ND
W-3M	-.2"	ND
W-3D	-.2"	ND
W-4	ϕ	ND
W-5S	ϕ	ND
W-5M	-.8"	ND
W-5D	-.6"	ND
W-6	ϕ	ND
W-7S	ϕ	ND
W-7M	-.3"	ND
W-7D	-.3"	ND
W-8	ϕ	ND
W-9A	ϕ	ND
W-9B	ϕ	ND
W-10S	ϕ	ND
W-10M	-.3"	ND
W-10D	ϕ	ND
W-11	ϕ	ND
W-12S	ϕ	ND
W-12M	ϕ	ND
W-12D	ϕ	ND
W-13	ϕ	ND
W-14S	-.4"	ND
W-14M	ϕ	ND
W-14D	ϕ	ND

PROBE I.D.	STATIC PRESSURE (in W.C)	TOC (%CH4)
S-1A	N/A	N/A
S-2B	N/A	N/A
S-3S	ϕ	ND
S-3M1	ϕ	ND
S-3M2	ϕ	ND
S-3D	ϕ	ND
S-4	ϕ	ND
S-5	ϕ	ND
S-6S	ϕ	ND
S-6M1	ϕ	ND
S-6M2	ϕ	ND
S-6D	ϕ	ND
S-7	ϕ	ND
S-8	ϕ	ND
S-9S-R	ϕ	ND
S-9M1-R	ϕ	ND
S-9M2-R	ϕ	ND
S-9D-R	ϕ	ND
S-10R	ϕ	ND
S-11R	ϕ	ND
S-12	ϕ	ND

PROBE I.D.	STATIC PRESSURE (in W.C)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

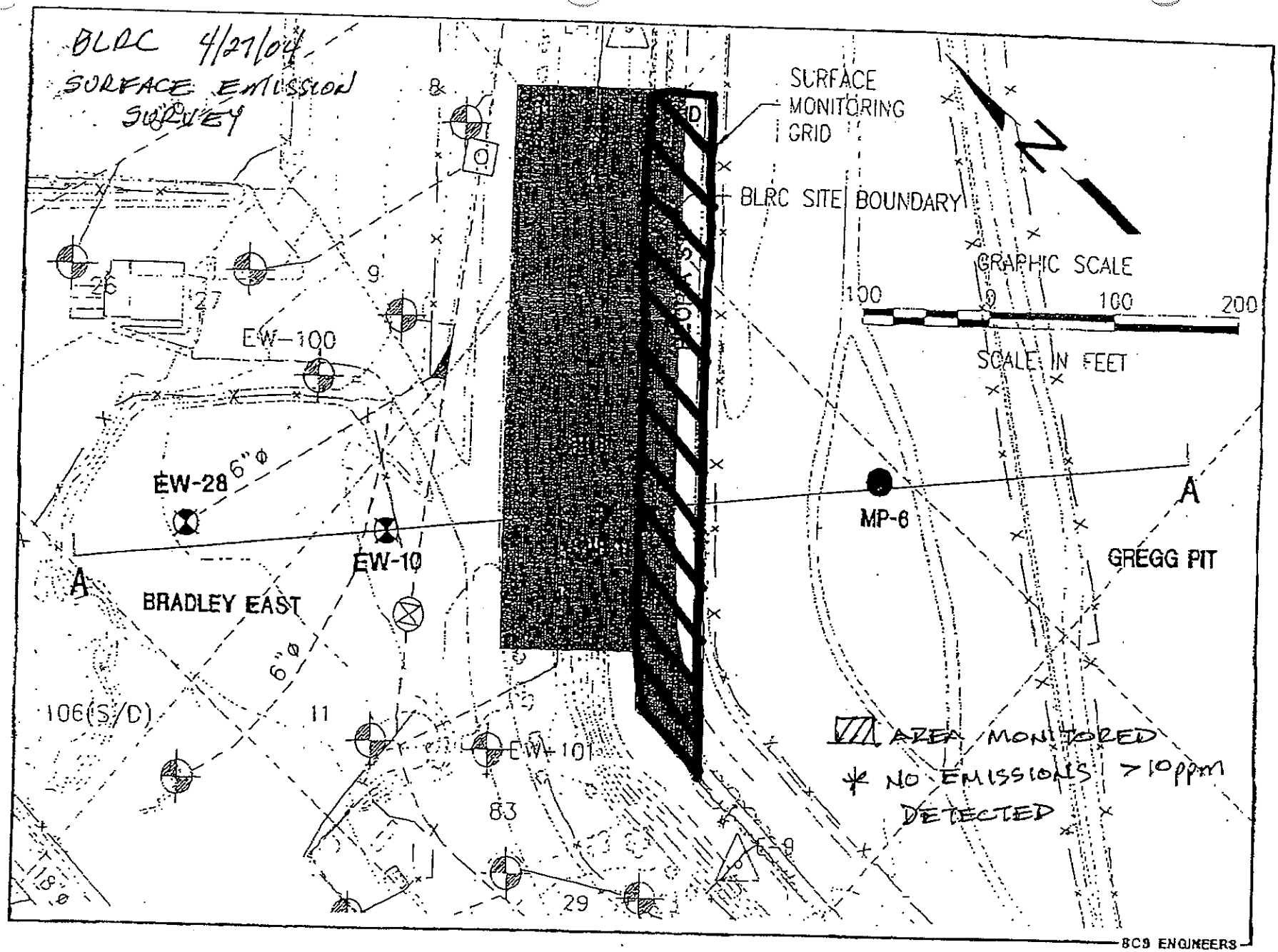
Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07188027.00


BLRC 4/27/04
SURFACE EMISSION SURVEY
SURFACE MONITORING GRID
BLRC SITE BOUNDARY
N
GRAPHIC SCALE
100 0 100 200
SCALE IN FEET
EW-100
EW-28
6"ø
EW-10
EW-101
MP-6
A
A
BRADLEY EAST
GREGG PIT
6"ø
106(S/D)
11
83
29
AREA MONITORED
* NO EMISSIONS > 10ppm DETECTED
BC9 ENGINEERS

SCS FIELD SERVICES, INC.
ORGANIC VAPOR ANALYZER CALIBRATION LOG

Site: BLRC

Purpose: SURFACE EMISSIONS SURVEY GRID #31D

Operator: ERNESTO MARTINEZ

Date: Start 4/27/04 Finish 4/27/04

Model # TIA-1000

Serial # ———

INSTRUMENT INTEGRITY CHECKLIST	
Battery test	(Pass)/Fail
Reading following ignition	10 ppm
Leak test	(Pass)/Fail
Clean system check (check valve chatter)	(Pass)/Fail
H_2 supply pressure gauge (acceptable range 9.5 – 12)	(Pass)/Fail

INSTRUMENT CALIBRATION

Perform three-point internal calibration before use.

CALIBRATION CHECK

Calibration Gas (ppm)	Actual (ppm)	% Accuracy	Ambient (ppm)
500	500	100%	10

AUDIT

Time	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
1.	500	500	100%
2.	500	500	100%

Instrument calibrated to CH4 gas.

Comments:

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. E1257)

4/26/04 - 4/27/04

BAROMETRIC (before): 30.03" - 29.99"

BAROMETRIC (after): 30.00" - 29.99"

TECHNCIAN: ERNESTO MARTINEZ

DATE: 4/26/04	DATE: 4/26/04	DATE: 4/27/04
START TIME: 1000 HRS.	START TIME: 1215 HRS.	START TIME: 0845 HRS.
FINISH TIME: 1210 HRS.	FINISH TIME: 1340 HRS.	FINISH TIME: 1040 HRS.

PROBE I.D	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S	ϕ	ND
W-1M	ϕ	ND
W-1D	ϕ	ND
W-2A	ϕ	ND
W2B	ϕ	ND
W-3S	-.2"	ND
W-3M	-.2"	ND
W.3D	-.2"	ND
W-4	ϕ	ND
W-5S	ϕ	ND
W-5M	-.3"	ND
W-5D	-.6"	ND
W-6	ϕ	ND
W-7S	ϕ	ND
W-7M	-.3"	ND
W-7D	-.3"	ND
W-8	ϕ	ND
W-9A	ϕ	ND
W-9B	ϕ	ND
W-10S	ϕ	ND
W-10M	-.3"	ND
W-10D	ϕ	ND
W-11	ϕ	ND
W-12S	ϕ	ND
W-12M	ϕ	ND
W-12D	ϕ	ND
W-13	ϕ	ND
W-14S	-.4"	ND
W-14M	ϕ	ND
W-14D	ϕ	ND

PROBE I.D	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A	N/A	N/A
S-2B	N/A	N/A
S-3S	ϕ	ND
S-3M1	ϕ	ND
S-3M2	ϕ	ND
S-3D	ϕ	ND
S-4	ϕ	ND
S-5	ϕ	ND
S-6S	ϕ	ND
S-6M1	ϕ	ND
S-6M2	ϕ	ND
S-6D	ϕ	ND
S-7	ϕ	ND
S-8	ϕ	ND
S-9S-R	ϕ	ND
S-9M1-R	ϕ	ND
S-9M2-R	ϕ	ND
S-9D-R	ϕ	ND
S-10R	ϕ	ND
S-11R	ϕ	ND
S-12	ϕ	ND

PROBE I.D	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	ϕ	ND
E-2S	ϕ	ND
E-2M	ϕ	ND
E-2D	ϕ	ND
E-3	ϕ	ND
E-4	ϕ	ND
E 5S	ϕ	ND
E-5M	ϕ	ND
E-5D	ϕ	ND
E-6	ϕ	ND
E-7	ϕ	ND
E-8S	-.4"	ND
E-8M	-.1"	ND
E-8D	-.6"	24.7
E-9	ϕ	ND
E-10	ϕ	ND
E-11S-R	ϕ	ND
E-11M-R	-.2"	ND
E-11D-R	-.6"	ND
E-12	ϕ	ND
E-13	-.2"	ND
E-14S	-.1"	ND
E-14M	ϕ	ND
E-14D	-.2"	ND

* Submitted for laboratory analyses.

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. 61257)

TECHNICIAN: ERNESTO MARTINEZ

BAROMETRIC (before): 29.79"
BAROMETRIC (after): 29.77"

DATE: 4/28/04 DATE: DATE:

START TIME: 1250 HRS. START TIME: START TIME:
FINISH TIME: 1335 HRS. FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	ϕ	ND
W2B		
W-3S		
W-3M	ϕ	ND
W-3D	+.2"	ND
W-4		
W-5S		
W-5M		
W-5D	+.2"	ND
W-6		
W-7S		
W-7M		
W-7D	ϕ	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+.3"	ND
W-10D	+.2"	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. 341)

TECHNCIAN: M. Galdamez

DATE: 4/29/04

START TIME: 1315

FINISH TIME: 1420

BAROMETRIC (before): 29.91

BAROMETRIC (after): 29.90

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	0	ND
W2B		
W-3S		
W-3M	0	
W-3D	-.3	ND
W-4		
W-5S		
W-5M		
W-5D	-1.0	ND
W-6		
W-7S		
W-7M		
W-7D	-1.0	ND
W-8		
W-9A		
W 9B		
W-10S		
W-10M	-.6	ND
W 10D	0	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No E1257)

TECHNICIAN: E. MARTINEZ

BAROMETRIC (before): 30.02"
BAROMETRIC (after): 30.01"

DATE: 4/30/04
START TIME: 1315 HRS.
FINISH TIME: 1350 HRS.

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	0	ND
W2B		
W-3S		
W-3M	0	ND
W-3D	-.1"	ND
W-4		
W-5S		
W-5M		
W-5D	-.2"	ND
W-6		
W-7S		
W-7M		
W-7D	-.3"	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-.1"	ND
W-10D	0	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-.3"	ND
W-14M		
W-14D		

DATE: 4/30/04
START TIME: 1353 HRS.
FINISH TIME: 1355 HRS.

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	0	ND

DATE: 4/30/04
START TIME: 1400HRS.
FINISH TIME: 1430 HRS.

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1	0	ND
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	0	ND
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-.6"	ND
E-12		
E-13		
E-14S		
E-14M	0	ND
E-14D	-.3"	ND

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section I.3.1 Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds

Comments: GEM-500 CALIBRATED TO 2.5% CH_4
* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

"MONDAY" PROBES

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No.)

TECHNICIAN: RAMON IBARRA / REYES TREJO

BAROMETRIC (before): 28.87

BAROMETRIC (after): 28.92

DATE: _____ DATE: _____ DATE: 5-3-04

START TIME: 1630 START TIME: _____ START TIME: _____

FINISH TIME: 1730 FINISH TIME: _____ FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	0.0	0.0
W2B		
W-3S		
W-3M	0.0	0.0
W-3D	0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	0.0	0.0
W-10D	0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO ~~2.5~~ 50% CH_4, WILL USE 2.5% ON 5-4-04.

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. GM 07406)

BAROMETRIC (before): 28.96

BAROMETRIC (after): 28.88

TECHNICIAN: Ramon Ibarra

DATE: 5/4/04

START TIME: ~~1436~~ 1330

FINISH TIME: 1445

DATE: 5/4/04

START TIME:

FINISH TIME:

DATE: 5/4/04

START TIME:

FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	-00.0	0.0
W2B		
W-3S		
W-3M	-0.0	0.0
W-3D	-0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.0	0.0
W-6		
W-7S		
W-7M		
W-7D		
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.0	0.0
W-10D	-0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.0	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	-0.0	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1	-0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.0	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.0	0.0
E-12		
E-13		
E-14S		
E-14M	-0.0	0.0
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: 2000 GEM-500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 2000 (Serial No. S/N 7406)

BAROMETRIC (before): 29.04

BAROMETRIC (after): 29.00

TECHNCIAN: Ramon Ibarra

DATE: 5/5/04 DATE: _____ DATE: _____

START TIME: 0915 START TIME: _____ START TIME: _____

FINISH TIME: 0955 FINISH TIME: _____ FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	-.0	0.0
W2B		
W-3S		
W-3M	-.0	0.0
W-3D	-.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-.0	0.0
W-6		
W-7S		
W-7M		
W-7D	-.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-.0	0.0
W-10D	-.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: ~~GEM-500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7406 S/N)

BAROMETRIC (before): 29.09

BAROMETRIC (after): 28.99

TECHNCIAN: Reyes Trejo - Ramon TBarra

DATE: 5/6/04 DATE: DATE:

START TIME: 8:05 START TIME: START TIME:

FINISH TIME: 8:75 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.0	0.0
W2B		
W-3S		
W-3M	-0.3	0
W-3D	-0.4	0
W-4		
W-5S		
W-5M		
W-5D	-0.7	0
W-6		
W-7S		
W-7M		
-7D	-0.6	0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.04	0
W-10D	-0.2	0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: ~~500~~ 2000 GEM-~~500~~ CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7406 S/N)
Field Techs

BAROMETRIC (before): 29.06
BAROMETRIC (after): 29.04

TECHNCIAN: Ramon & Reyes

DATE: 5/7/04 DATE: 5/7/04 DATE: 5/7/04

START TIME: 0735
FINISH TIME: 0845

START TIME: /
FINISH TIME: /

START TIME: /
FINISH TIME: /

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	-.0	0.0
W2B		
W-3S		
W-3M	-.1	0.0
W-3D	-.2	0.0
W-4		
W-5S		
W-5M		
W-5D	-.5	0.0
W-6		
W-7S		
W-7M		
W-7D	-.4	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-.2	0.0
W-10D	-.01	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-.5	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	-.2	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1	-.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-.2	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-.5	0.0
E-12		
E-13		
E-14S		
E-14M	-.2	0.0
E-14D	-.3	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No.)

BAROMETRIC (before): 28.94

BAROMETRIC (after): 28.93

TECHNCIAN: Reyes Trejo

DATE: 5-10-04 DATE: DATE:

START TIME: 7:20 AM START TIME: START TIME:

FINISH TIME: 7:50 AM FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+.1	ND
W2B		
W-3S		
W-3M	-.0	ND
W-3D	-.1	ND
W-4		
W-5S		
W-5M		
W-5D	-.0	ND
W-6		
W-7S		
W-7M		
W-7D	-.0	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-.3	ND
W-10D	-.4	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-~~500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No.)

BAROMETRIC (before): 28-85

BAROMETRIC (after): 28-85

TECHNICIAN: Reyes Trejo

DATE: 5/10/04 DATE: DATE:

START TIME: 2:45 START TIME: START TIME:

FINISH TIME: 3:05 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	+0.01-2	ND
W2B		
W-3S		
W-3M	-0.0	ND
W-3D	-0.0	N.D
W-4		
W-5S		
W-5M		
W-5D	-0.0	N.D
W-6		
W-7S		
W-7M		
W-7D	+0.1	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.3	ND
W-10D	-0.0	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: **GEM-500 CALIBRATED TO 2.5% CH_4**

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. S/N 7406)

BAROMETRIC (before): 28.91

BAROMETRIC (after): 28.95

TECHNCIAN: Ramon Ibarra

DATE: 5/12/04 DATE: DATE: 5/12/04

START TIME: 1300 START TIME: START TIME:

FINISH TIME: 1350 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	-026.54	0.0
W2B		
W-3S		
W-3M	0.0	0.0
W-3D	-0.89	0.0
W-4		
W-5S		
W-5M		
W-5D	-033.87	0.0
W-6		
W-7S		
W-7M		
W-7D	-39.12	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-011.16	0.0
W-10D	-03.90	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No.)

BAROMETRIC (before): 28.91

BAROMETRIC (after): 28.97

TECHNCIAN: Ramon Ibarra

DATE: 5/13/04 DATE: DATE:

START TIME: 1300 START TIME: START TIME:

FINISH TIME: 1320 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-57.58	0.0
W2B		
W-3S		
W-3M	-031.80	0.0
W-3D	-003.19	0.0
W-4		
W-5S		
W-5M		
W-5D	-104.08	0.0
W-6		
W-7S		
W-7M		
W-7D	-152.57	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-010.18	0.0
W-10D	-002.75	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7406)

BAROMETRIC (before): 28.98
BAROMETRIC (after): 29.00

TECHNCIAN: Ramon Ibarra

DATE: 5/14/04 DATE: _____ DATE: _____

START TIME: ~~0830~~ 1030
FINISH TIME: 1129

START TIME: _____
FINISH TIME: _____

START TIME: _____
FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.0	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	-0.2	0.1
W-4		
W-5S		
W-5M		
W-5D		
W-6		
W-7S		
W-7M		
-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	0.0
W-10D	-0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.1	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	-0.0	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	-0.0	0.1
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.1	0.2
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.2	0.0
E-12		
E-13		
E-14S		
E-14M	-0.1	0.0
E-14D	-0.3	0.1

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: ~~GEM-500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7406)

BAROMETRIC (before): 28.98

BAROMETRIC (after): 28.99

TECHNCIAN: Ramon / Reyes

DATE: 5/17/04

DATE:

DATE:

START TIME: 1325

FINISH TIME: 1400

START TIME:

FINISH TIME:

START TIME:

FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	N.D
W2B		
W-3S		
W-3M	-0.1	ND
W-3D	-0.1	ND
W-4		
W-5S		
W-5M		
W-5D	-0.7	ND
W-6		
W-7S		
W-7M		
W-7D	-0.3	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.4	ND
W-10D	-0.1	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A	N/A	N/A
S-2B	N/A	N/A.
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: ~~GEM-500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec GEM 2000 (Serial No. 7406)

BAROMETRIC (before): 29.16

BAROMETRIC (after): 29.11

TECHNCIAN: Ramon Ibarra

DATE: 5/18/04 DATE: _____ DATE: _____

START TIME: 0950 START TIME: _____ START TIME: _____

FINISH TIME: 1100 FINISH TIME: _____ FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-.03	0.0
W-3D	-.04	0.0
W-4		
W-5S		
W-5M		~~0.0~~
W-5D	-0.5	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.6	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.7	0.0
W-10D	-0.2	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.4	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.2	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-01.3	0.0
E-12		
E-13		
E-14S		
E-14M	-0.2	0.0
E-14D	~~-0.7~~	~~0.0~~
	-0.7	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-~~500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No.)

BAROMETRIC (before): 28.99

BAROMETRIC (after): 28.98

TECHNCIAN: Ramon Ibarra

DATE: 5/19/04 DATE: DATE:

START TIME: 1400 START TIME: START TIME:

FINISH TIME: 1430 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.1
W2B		
W-3S		
W-3M	-0.2	0.0
W-3D	-0.1	0.1
W-4		
W-5S		
W-5M		
W-5D	-0.4	0.2
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No.)

BAROMETRIC (before): 28.98

BAROMETRIC (after): 29.03

TECHNCIAN: Ramon Ibarra

DATE: 5/20/04 DATE: DATE:

START TIME: 1315 START TIME: START TIME:

FINISH TIME: 1335 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	-0.2	0.0
W-3D	-0.2	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.7	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.3	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.3	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No.)

BAROMETRIC (before): 29.05

BAROMETRIC (after): 29.02

TECHNCIAN: Reyes Trejo

DATE: 5/21/04

START TIME: 13:55

FINISH TIME: 14:25

DATE: 5/21/04

START TIME: 14:30

FINISH TIME: 14:35

DATE: 5/21/04

START TIME: 14:40

FINISH TIME: 15:10

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (CH_4)
W-1S		
W-1M		
W-1D		
W-2A	-0.0	ND
W2B		
W-3S		
W-3M	-0.0	ND
W-3D	-0.0	ND
W-4		
W-5S		
W-5M		
W-5D	-0.0	ND
W-6		
W-7S		
W-7M		
W-7D	+0.4	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.3	ND
W-10D	+0.3	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.1	ND
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.1	

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (CH_4)
E-1	+0.2	ND
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	+0.1	ND
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.4	ND
E-12		
E-13		
E-14S		
E-14M	+0.2	ND
E-14D	+0.1	ND

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7406)

BAROMETRIC (before): 28.97

BAROMETRIC (after): 28.96

TECHNCIAN: Ramon Ibarra

DATE: 5/24/04 DATE: _____ DATE: _____

START TIME: 1335 START TIME: _____ START TIME: _____

FINISH TIME: 1420 FINISH TIME: _____ FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (% CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.5	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (% CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (% CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: ~~GEM-500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No.)

BAROMETRIC (before): 28.91

BAROMETRIC (after): 28.93

TECHNCIAN: Ramon Ibarra

DATE: 5/25/04

START TIME: 1325

FINISH TIME: 1445

DATE:

START TIME:

FINISH TIME:

DATE:

START TIME:

FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.6	0.0
W-6		
W-7S		
W-7M	-0.2	0.0
W-7D		
W-8		
W-9A		
W-9B		
W-10S	-0.2	0.0
W-10M	+0.0	0.0
W-10D		
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.4	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.2	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.7	0.0
E-12		
E-13		
E-14S		
E-14M	+0.0	0.0
E-14D	-0.1	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Monthly Readings

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7252)

BAROMETRIC (before): 28.55

BAROMETRIC (after): 28.89

TECHNICIAN: Ramon Ibarra

DATE: 5/25/04 / 5/26/04

START TIME:

FINISH TIME:

DATE: 5/26/04

START TIME:

FINISH TIME:

DATE: 5/31/04

START TIME:

FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
W-1S	-0.1	0.0
W-1M	-7.8	0.0
W-1D	-8.4	0.0
W-2A	0	0.0
W2B	-8	0.0
W-3S	-7.9	0.0
W-3M	0	0.0
W-3D	-0.2	0.0
W-4	0	0.0
W-5S	-11.4	0.0
W-5M	-12	0.0
W-5D	-0.6	0.0
W-6	-16.7	0.0
W-7S	-12.1	0.0
W-7M	-11.8	0.0
W-7D	-0.2	0.0
W-8	0	0.0
W-9A	~~-38~~ 0	0.0
W-9B	-7.8	0.0
W-10S	0	0.0
W-10M	-0.2	0.0
W-10D	0	0.0
W-11	0	0.0
W-12S	0	0.0
W-12M	-0.1	0.0
W-12D	0	0.0
W-13	0	0.0
W-14S	-0.4	0.0
W-14M	0	0.0
W-14D	-0.2	0.0

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
S-1A	N/A	N/A
S-2B	N/A	~~0.0~~
S-3S	-0.1	0.0
S-3M1	0	0.0
S-3M2	0	0.0
S-3D	0	0.0
S-4	0	0.0
S-5	0	0.0
S-6S	0	0.0
S-6M1	0	0.0
S-6M2	0	0.0
S-6D	0	0.0
S-7	0	0.0
S-8	0	0.0
S-9S-R	-11.3	0.0
S-9M1-R	0	0.0
S-9M2-R	-0.1	0.0
S-9D-R	-0.1	0.0
S-10R	0	0.0
S-11R	-0.1	0.0
S-12	0	0.0

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
E-1	0	0.0
E-2S	0	0.0
E-2M	-0.2	0.0
E-2D	-3.2	0.0
E-3	-1.1	0.0
E-4	0	0.0
E-5S	0	0.0
E-5M	0	0.0
E-5D	0	0.0
E-6	-0.3	0.0
E-7	0	0.0
E-8S	-0.5	0.0
E-8M	-7.2	0.0
E-8D	-1.3	27.8
E-9	-0.1	0.0
E-10	0	0.0
E-11S-R	0	0.0
E-11M-R	-0.1	0.0
E-11D-R	-0.7	0.0
E-12	0	0.0
E-13	0	0.0
E-14S	0	0.0
E-14M	-3.3	0.0
E-14D	-0.6	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

* E-8D - Sample was collected & sent to Lab.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. 2000 7252)

BAROMETRIC (before): 28.55

BAROMETRIC (after): 28.53

TECHNCIAN: Ramon Ibarra

DATE: 3/26/04 DATE: DATE:

START TIME: 1000 START TIME: START TIME:

FINISH TIME: 1020 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.0	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.3	0.0
W-6		
W-7S		
W-7M		
-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.2	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: 2000 GEM 500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7252)

TECHNICIAN: Ramon Ibarra

BAROMETRIC (before): 29.06

BAROMETRIC (after): 29.04

DATE: 5/27/04 DATE: _____ DATE: _____

START TIME: 1410 START TIME: _____ START TIME: _____

FINISH TIME: 1450 FINISH TIME: _____ FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A	N/A	N/A
S-2B	N/A	N/A.
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No.)

BAROMETRIC (before): 28.91

BAROMETRIC (after): 28.93

TECHNICIAN: Ramon Ibarra

DATE: 5/28/04 DATE: DATE:

START TIME: 1250 START TIME: START TIME:

FINISH TIME: 1331 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.4	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.3	0.1
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A	N/A	N/A
S-2B	N/A	N/A.
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.1	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.1	0.0
E-12		
E-13		
E-14S		
E-14M	+0.0	0.0
E-14D	+0.1	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No.)

BAROMETRIC (before): 28.08

BAROMETRIC (after):

TECHNICIAN: Reyes Inyo

DATE: 6/1/04

START TIME: 1:30 pm

FINISH TIME: 3:00 pm

DATE:

START TIME:

FINISH TIME:

DATE: 6/1/04

START TIME: 3:15 pm

FINISH TIME: 3:17 pm

PROBE I.D.	STATIC PRESSURE (inW.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.3	ND
W2B		
W-3S		
W-3M	-0.3	ND
W-3D	-0.2	ND
W-4		
W-5S		
W-5M		
W-5D	-0.6	ND
W-6		
W-7S	-0.1	ND
W-7M	-0.8	ND
W-7D	-0.2	44.2
W-8	+0.3	ND
W-9A		
W-9B		
W-10S	+0.4	ND
W-10M	+0.8	3.0
W-10D	+0.5	11.7
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (inW.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (inW.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4	+0.4	ND
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-~~500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No.)

BAROMETRIC (before): 28.08

BAROMETRIC (after):

TECHNICIAN: Reyes Trejo

DATE: 6/1/04

START TIME: 1:30 pm

FINISH TIME: 3:00 pm

DATE: 6/1/04

START TIME: 3:05

FINISH TIME: 3:10

DATE: 6/1/04

START TIME: 4:00

FINISH TIME: 4:15

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.2	ND
W2B		
W-3S		
W-3M	-0.3	ND
W-3D	-0.2	ND
W-4		
W-5S		
W-5M		
W-5D	-0.6	ND
W-6		
W-7S	-0.1	ND
W-7M	-0.8	ND
W-7D	-0.2	44.2
W-8	+0.3	ND
W-9A		
W-9B		
W-10S	+0.4	ND
W-10M	+0.8	3.0
W-10D	+0.5	11.7
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	+0.4	ND
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.2	ND

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	+0.3	ND
E-2S		
E-2M		
E-2D		
E-3		
E-4	+0.4	ND
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D	+0.3	ND
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	+0.3	ND
E-12		
E-13		
E-14S		
E-14M	+0.4	ND
E-14D	+0.2	ND

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: ~~GEM-500~~ 2000 GEM CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No.)

BAROMETRIC (before): 28.82

BAROMETRIC (after): 28.83

TECHNICIAN: Ramon Ibarra

DATE: 6/2/04 DATE: DATE:

START TIME: 12:50 START TIME: START TIME:

FINISH TIME: 1335 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.0	ND
W2B		
W-3S		
W-3M	-0.1	ND
W-3D	-0.2	ND
W-4		
W-5S		
W-5M		
W-5D	-0.4	ND
W-6		
W-7S		
W-7M		
W-7D	-0.3	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	ND
W-10D	-0.1	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No.)

BAROMETRIC (before): 28.93

BAROMETRIC (after): 28.93

TECHNICIAN: Ramon Ibarra

DATE: 6/3/04 DATE: DATE:

START TIME: 1430 START TIME: START TIME:

FINISH TIME: 1505 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	-0.2	0.0
W-3D	-0.3	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.3	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.3	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	0.0
W-10D	+0.2	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: **GEM-500 CALIBRATED TO 2.5% CH_4**

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No.)

BAROMETRIC (before): 28.95

BAROMETRIC (after): 28.91

TECHNICIAN: Reyes Trejo

DATE: 6/4/04

START TIME: 14:40

FINISH TIME: 15:10

DATE: 6/4/04

START TIME: 15:10

FINISH TIME: 15:15

DATE: 6/4/04

START TIME: 15:20

FINISH TIME: 15:35

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	ND
W2B		
W-3S		
W-3M	-0.0	ND
W-3D	-3.8	ND
W-4		
W-5S		
W-5M		
W-5D	-0.4	ND
W-6		
W-7S		
W-7M		
W-7D	-0.2	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	ND
W-10D	+0.2	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.0	ND
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	ND

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
E-1	-0.1	ND
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.2	ND
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.0	ND
E-12		
E-13		
E-14S		
E-14M	-0.0	ND
E-14D	-0.0	ND

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-~~500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7252)

TECHNICIAN: Ramon Barra

DATE: 6/7/04

START TIME: 1315

FINISH TIME:

BAROMETRIC (before): 28.77

BAROMETRIC (after): 28.79

DATE:

START TIME:

FINISH TIME:

DATE:

START TIME:

FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.3	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.2	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: ~~GEM-500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7406)

BAROMETRIC (before): 28.88

BAROMETRIC (after): 28.88

TECHNICIAN: Ramon Ibarra (Shaw EI)

DATE: 6/8/04 DATE: DATE:

START TIME: 1300 START TIME: START TIME:

FINISH TIME: 1430 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-0.2	0.0
W-3D	-0.4	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.9	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.8	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.6	0.0
W-10D	-0.2	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.4	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4	-0.1	0.0
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.2	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.1	0.0
E-12		
E-13		
E-14S		
E-14M	-0.2	0.0
E-14D	-0.6	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: ~~GEM-500~~ GEM-2000 CALIBRATED TO ~~2.5%~~ 25% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

LEA Readings

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No.)

BAROMETRIC (before): 28.89
BAROMETRIC (after): 28.87

TECHNICIAN: R. Ibarra, Marty (LEA)

DATE: 6/8/04 DATE: DATE:

START TIME: 1345 START TIME: START TIME:
FINISH TIME: 1430 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A		
W2B		
W-3S		
W-3M		0.0
W-3D		0.0
W-4		
W-5S		0.0
W-5M		0.0
W-5D		0.0
W-6		
W-7S		0.0
W-7M		0.0
W-7D		0.0
W-8		
W-9A		
W-9B		
W-10S		0.0
W-10M		0.0
W-10D		0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		0.0
S-9M1-R		0.0
S-9M2-R		0.0
S-9D-R		0.0
S-10R		
S-11R		
S-12		0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Local Enforcement Agency.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4
* Submitted for laboratory analyses.

NOTES: Marty - onsite LEA
Bruce Matlock W.M
Ramon Ibarra Shaw E.E

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No.)

BAROMETRIC (before): 28.92

BAROMETRIC (after): 28.91

TECHNICIAN: Ramon Ibarra

DATE: 6/9/04 DATE: DATE:

START TIME: 1315 START TIME: START TIME:

FINISH TIME: 1340 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-0.3	0.0
W-3D	-0.4	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.5	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.7	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.6	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A	N/A	N/A
S-2B	N/A	N/A
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7406)

BAROMETRIC (before): 29.01

BAROMETRIC (after): 28.98

TECHNICIAN: Ramon Ibarra

DATE: 6/10/04 DATE: DATE:

START TIME: 1410 START TIME: START TIME:

FINISH TIME: 1436 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.3	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A	N/A	N/A
S-2B	N/A	N/A.
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No.)

BAROMETRIC (before): 28.96

BAROMETRIC (after): 28.94

TECHNICIAN: Ramon Ibarra

DATE: 6/11/04 DATE: DATE:

START TIME: 1250 START TIME: START TIME:

FINISH TIME: 1400 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.2	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A	N/A	N/A
S-2B	N/A	N/A
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4	+0.0	0.0
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R	~~+0.0~~	~~0.0~~ (80)
S-12	+0.0	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4	-0.1	0.0
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.3	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.4	0.0
E-12		
E-13		
E-14S		
E-14M	+0.0	0.0
E-14D	+0.0	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7406)

BAROMETRIC (before): 28.92

BAROMETRIC (after): 28.92

TECHNICIAN: Ramon Ibarra

DATE: 6/14/04 | DATE: | DATE:

START TIME: 1250 | START TIME: | START TIME:

FINISH TIME: 1315 | FINISH TIME: | FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	LOC (% CH_4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.1	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	LOC (% CH_4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	LOC (% CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: 2000 GEM-~~500~~ CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7406)

TECHNICIAN: Ramon Ibarra

BAROMETRIC (before): 28.84

BAROMETRIC (after): 28.80

DATE: 6/15/04 DATE: _____ DATE: _____

START TIME: 1315 START TIME: _____ START TIME: _____

FINISH TIME: 1505 FINISH TIME: _____ FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.1	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.2	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	-0.1	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4	+0.0	0.0
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.6	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	+0.0	0.0
E-12		
E-13		
E-14S	+0.0	0.0
E-14M	+0.0	0.0
E-14D	+0.2	16.8

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7406)

TECHNICIAN: Ramon Ibarra

BAROMETRIC (before): 28.94

BAROMETRIC (after): 28.99

DATE: 6/16/04 | DATE: | DATE:

START TIME: 1250 | START TIME: | START TIME:

FINISH TIME: 1335 | FINISH TIME: | FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	+0.2	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	-0.2	0.0
W-4		
W-5S		
W-5M		
W-5D		0.0
W-6		
W-7S		
W-7M	-0.7	
W-7D	-0.6	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.5	0.0
W-10D	~~0~~ 0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A	N/A	N/A
S-2B	N/A	N/A.
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M	+0.0	0.0
E-14D	-0.5	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7406)

TECHNCIAN: Ramon Ibarra

BAROMETRIC (before): 29.04

BAROMETRIC (after): 28.99

DATE: 6/17/04 DATE: DATE:

START TIME: 1310 START TIME: START TIME:

FINISH TIME: 1400 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
W-1S		
W-1M		
W-1D		
W-2A	+0.2	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	-0.2	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.6	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.6	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.5	0.0
W-10D	-0.2	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
S-1A	N/A	N/A
S-2B	N/A	N/A.
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH_4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No.)

BAROMETRIC (before): 29.04

BAROMETRIC (after): 28.96

TECHNICIAN: Reyes Trejo

DATE: 6/18/04 DATE: DATE:

START TIME: 14:00 START TIME: START TIME: 14:37

FINISH TIME: FINISH TIME: FINISH TIME: 15:00

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+.2	ND
W2B		
W-3S		
W-3M	0	ND
W-3D	0	ND
W-4		
W-5S		
W-5M		
W-5D	+.2	ND
W-6		
W-7S		
W-7M		
W-7D	-.1	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	0	ND
W-10D	0	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+.1	ND

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	0	ND
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-.1	ND
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R	0	ND
E-11D-R		
E-12		
E-13		
E-14S		
E-14M	0	ND
E-14D	-.1	ND

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-~~500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Daily Readings

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7406)

BAROMETRIC (before): 28.95

BAROMETRIC (after): 28.93

TECHNICIAN: Ramon Barr

DATE: 6/21/04 DATE: DATE:

START TIME: 13:50 START TIME: START TIME:

FINISH TIME: 14:10 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (inW.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.5	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (inW.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (inW.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7406)

BAROMETRIC (before): 28.91

BAROMETRIC (after): 28.89

TECHNICIAN: RAMON IBARRA

DATE: 6/22/04 DATE: DATE:

START TIME: 1300 START TIME: START TIME:

FINISH TIME: 1410 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D *	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.3	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	+0.0	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A	N/A	N/A
S-2B	N/A	N/A.
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.2	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	-0.1	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.2	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.6	0.0
E-12		
E-13		
E-14S	+0.0	0.0
E-14M	+0.2	0.0
E-14D	+0.0	8.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7406)

BAROMETRIC (before): 29.00

BAROMETRIC (after): 28.98

TECHNICIAN: RAUL BONGATO

DATE: 6/23/04 DATE: DATE:

START TIME: 14:20 START TIME: START TIME:

FINISH TIME: 14:45 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.2	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
S-1A	N/A	N/A
S-2B	N/A	N/A.
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: **GEM-500 CALIBRATED TO 2.5% CH_4**

* Submitted for laboratory analyses.

Monthly Probe Readings

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No.)

BAROMETRIC (before): 29.01

BAROMETRIC (after): 29.04

TECHNICIAN: Ramon Ibarra

DATE: 6/17/04 DATE: 6/21/04 DATE: 6/24/04 → Bar 29.09

START TIME: 1300 START TIME: 0930 START TIME: 0850

FINISH TIME: 1410 FINISH TIME: 1140 FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S	+0.0	0.0
W-1M	+0.0	0.0
W-1D	+0.0	0.0
W-2A	+0.2	0.0
W2B	+0.1	0.0
W-3S	+0.0	0.0
W-3M	-0.1	0.0
W-3D	-0.2	0.0
W-4	+0.0	0.0
W-5S	+0.0	0.0
W-5M	-0.3	0.0
W-5D	-0.6	0.0
W-6	+0.0	0.0
W-7S	-0.1	0.0
W-7M	-0.8	0.0
W-7D	-0.6	0.0
W-8	+0.0	0.0
W-9A	+0.0	0.0
W-9B	+0.0	0.0
W-10S	+0.0	0.0
W-10M	-0.5	0.0
W-10D	-0.2	0.0
W-11	+0.0	0.0
W-12S	+0.0	0.0
W-12M	-0.4	0.0
W-12D	-0.1	0.0
W-13	+0.0	0.0
W-14S	+0.0	0.0
W-14M	+0.0	0.0
W-14D	-0.4	0.0

N/A

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A	—	—
S-2B	—	—
S-3S	+0.0	0.0
S-3M1	+0.0	0.0
S-3M2	+0.0	0.0
S-3D	+0.0	0.0
S-4	+0.0	0.0
S-5	+0.0	0.0
S-6S	+0.0	0.0
S-6M1	+0.0	0.0
S-6M2	+0.0	0.0
S-6D	+0.0	0.0
S-7	+0.0	0.0
S-8	+0.0	0.0
S-9S-R	+0.0	0.0
S-9M1-R	+0.0	0.0
S-9M2-R	+0.0	0.0
S-9D-R	+0.0	0.0
S-10R	+0.0	0.0
S-11R	+0.0	0.0
S-12	+0.0	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	+0.1	0.0
E-2S	+0.0	0.0
E-2M	-0.1	0.0
E-2D	-2.0	0.0
E-3	-0.2	0.0
E-4	40.0	0.0
E-5S	+0.0	0.0
E-5M	+0.0	0.1
E-5D	-0.1	0.0
E-6	+0.0	0.0
E-7	+0.0	0.0
E-8S	-0.1	0.0
E-8M	-0.2	0.0
E-8D	-0.6	32.4
E-9	-0.1	0.0
E-10	-0.1	0.0
E-11S-R	-0.1	0.0
E-11M-R	-0.3	0.0
E-11D-R	-0.9	0.0
E-12	-0.2	0.0
E-13	-0.3	0.0
E-14S	-0.3	0.0
E-14M	-0.2	0.0
E-14D	-0.3	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7461)

BAROMETRIC (before): 28.95
BAROMETRIC (after): 28.92

TECHNICIAN: RAMON IBARRA / RAUL BONGAJO

DATE: 6/24/04 | DATE: | DATE:

START TIME: 13:43
FINISH TIME: 13:57

START TIME:
FINISH TIME:

START TIME:
FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (% CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.2	0.0
W2B		
W-3S*		
W-3M	-0.3	0.0
W-3D*	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.4	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.2	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (% CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (% CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7406)

BAROMETRIC (before): 29.03

BAROMETRIC (after): 28.95

TECHNCIAN: Ramon Ibarra / RAUL BONGATO

DATE: 6/25/04

START TIME: 13:54

FINISH TIME: 15:00

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (% CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.3	0.0
W2B		
W-3S		
W-3M	-0.4	0.0
W-3D	-0.2	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.4	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.2	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	1.5
W-10D	-0.3	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.6	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (% CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	-0.5	0.0

PROBE I.D.	STATIC PRESSURE (in.W.C.)	TOC (% CH4)
E-1	-0.7	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.7	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.7	0.0
E-12		
E-13		
E-14S		
E-14M	-0.5	0.0
E-14D	-0.4	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 2000 (Serial No. 7406)

TECHNCIAN: Ramon Ibarra

BAROMETRIC (before): 29.09

BAROMETRIC (after): 29.05

DATE: 6/30/04

START TIME: 1315

FINISH TIME: 1340

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (% CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.4	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.3	0.0
W-8		
W-9A		
W-9B		
W-10S	+0.0	0.0
W-10M	-0.2	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (% CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (% CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: 2000 GEM-~~500~~ CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

environmental consultants
laboratory services

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Sample

Report Date: June 8, 2004
Client: Shaw Environmental
Project Location: Bradley Landfill
Date Received: June 1, 2004
Date Analyzed: June 1, 2004

AtmAA Lab No.:	01534-1
Sample I.D.:	Probe E8D BL-010
Components	(Concentration in %,v)
Nitrogen	49.2
Oxygen	12.9
Methane	23.2
Carbon dioxide	13.2
	(Concentration in ppmv)
TGNMO	547
Hydrogen sulfide	<0.5
	(Concentration in ppbv)
Benzene	<20
Benzylchloride	<40
Chlorobenzene	<30
Dichlorobenzenes*	<30
1,1-dichloroethane	<30
1,2-dichloroethane	<20
1,1-dichloroethylene	<30
Dichloromethane	<30
1,2-dibromoethane	<30
Perchloroethylene	<20
Carbon tetrachloride	<30
Toluene	34.0
1,1,1-trichloroethane	<20
Trichloroethene	<20
Chloroform	<20
Vinyl chloride	442
m+p-xylenes	30.2
o-xylene	<20

The accuracy of permanent gas analysis by TCD/GC is +/- 2%, actual results are reported.
The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.
TGNMO is total gaseous non-methane organics measured and reported as ppm methane.
** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: June 1, 2004
Date Analyzed: June 1, 2004

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in %,v)			
Nitrogen	Probe E8D	49.2	49.2	49.2	0.0
Oxygen	Probe E8D	13.0	12.8	12.9	0.78
Methane	Probe E8D	23.2	23.2	23.2	0.0
Carbon dioxide	Probe E8D	13.4	13.1	13.2	1.1
		(Concentration in ppmv)			
TGNMO	Probe E8D	541	553	547	1.1
Hydrogen sulfide	Probe E8D	<0.5	<0.5	---	---
		(Concentration in ppbv)			
Benzene	Probe E8D	<20	<20	---	---
Benzylchloride	Probe E8D	<40	<40	---	---
Chlorobenzene	Probe E8D	<30	<30	---	---
Dichlorobenzenes	Probe E8D	<30	<30	---	---
1,1-dichloroethane	Probe E8D	<30	<30	---	---
1,2-dichloroethane	Probe E8D	<20	<20	---	---
1,1-dichloroethylene	Probe E8D	<30	<30	---	---
Dichloromethane	Probe E8D	<30	<30	---	---
1,2-dibromoethane	Probe E8D	<30	<30	---	---
Perchloroethylene	Probe E8D	<20	<20	---	---
Carbon tetrachloride	Probe E8D	<30	<30	---	---
Toluene	Probe E8D	36.3	31.7	34.0	6.8

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
1,1,1-trichloroethane	Probe E8D	<20	<20	---	---
Trichloroethene	Probe E8D	<20	<20	---	---
Chloroform	Probe E8D	<20	<20	---	---
Vinyl chloride	Probe E8D	455	430	442	2.8
m+p-xylenes	Probe E8D	31.6	28.9	30.2	4.5
o-xylene	Probe E8D	<20	<20	---	---

One Tedlar bag sample, laboratory number 01534-1, was analyzed for SCAQMD Rule 1150.1 components, permanent gases, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 8 repeat measurements from the one Tedlar bag sample is 2.1%.

Shaw

Shaw Environmental and Infrastructure Inc.

CHAIN OF CUSTODY

Ref. Document # _____

Page 1 of 1

Company Name: Shaw Environmental & Infra., Inc.
Address: 9081 Tujunga Avenue
City / State / Zip: Sun Valley, CA 91352
Manager: Darrell Thompson
Phone/Fax Number: 818-767-0444
Send Report To: Tom Sandhu
Address: 9081Tujunga Avenue
City: Sun Valley, CA 91352
Project Contact: Tom Sandhu
Phone/Fax Number: (818) 822-5273

Project Number: 108341.01
Project Name: Bradley Landfill
Project Location: Sun Valley, California
Purchase Order #:
Lab Destination: AtmAA, Inc.
Lab Contact: Micheal
Lab Phone #: (818) 223-3277

Program: [ ] Navy [ ] AFCEE [ ] DOT [X] USACE [ ] NPDES [ ] RCRA [ ] Other

Shaw Sample Number	Sample Identification	Collection Information: Date	Time	Method	Matrix	# of Containers	QC Level	PRESERVATION: HCL	NaOH	HNO_3	H_2SO_4	Ice		Requesting Testing Program: Total BTU's	TOC Method 25	TAC Rule 1150.1	TRS / 307.91	Table 1 Core Group	Fixed Gases (CO_2, O_2, N_2)					MS/MSD = M, Field Duplicate = D
01534-1 BL-010	Probe E8D	05/31/01	0850	LF	A	1									x	x		x	x					

Special Instructions:

Sampler(s) Name(s):

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	6/1/04	0940	[signature]	6.1.04	1014
[signature] A.C.S.	6-1-04	940			

Turnaround Time:	Normal	Rush

Method Codes
C = Composite
G = Grab
LF - Low Flow

Matrix Codes
DW = Drinking Water
SO =Soil
GW = Ground Water
SL = Sludge
WW = Waste Water
CP = Chip Samples
SW = Surface Water
WP = Wipe Samples
LIQ = Other Liquid
A = Air Sample
SOL = Other Solid

SEVERN TRENT STL

May 19, 2004

STL LOT NUMBER: **E4D280237**
PO/CONTRACT: **LB1504**

Mr. Ken Pierce
SCS Field Services
3711 Long Beach Blvd
Suite 806
Long Beach, CA 90807

Dear Mr. Pierce:

This report contains the analytical results for the sample received under chain of custody by STL Los Angeles on April 27, 2004. This sample is associated with your 234|BRADLEY LANDFILL project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA / E87652.

Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria, except as noted in the case narrative below. Any matrix related anomaly is footnoted within the report.

Preliminary results were sent via email to the following addresses on May 5, 2004: kpierce@scsengineers.com and bmatlock@wm.com.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000023 pages.

CASE NARRATIVE

1. In the EPA 25C sample analysis, please note that the laboratory evaluates each set of triplicate sample and QA/QC injections based on a 15% RSD (Percent Relative Standard Deviation) criterion. The average response factor from each calibration standard is evaluated against the curve mean based on a 15% D (Percent Difference) criterion. The system performance check or the daily calibration is evaluated based on a 15% D criterion. STL Los Angeles does not consider the published method criteria of 2% RSD, 2.5% D, and 5% D, respectively, practical for use in a production laboratory.

2. The EPA TO15 sample was received in a Tedlar bag. As per NELAC, Tedlar bags are not appropriate sample collection media for this test. EPA TO15 describes the use of SUMMA canisters for sampling and analysis. Use of Tedlar sample bags constitutes a modification to the method.

If you have any questions, please feel free to call me at (714) 258-8610 extension 325.

Sincerely,

Maria O. Friedman
Project Manager

cc: Mr. Bruce Matlock
Waste Management Disp. Services
9081 Tujunga Ave.
Sun Valley, CA 91352

Project File

Chain of Custody Record

SEVERN TRENT STL
Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	WASTE MANAGEMENT INC
Address	9081 TUJUNGA AVE
City	SUN VALLEY
State	CA
Zip Code	91352
Project Name and Location (State)	BRADLEY LF.
Contract/Purchase Order/Quote No.	
Project Manager	KEN PIERCE
Telephone Number (Area Code)/Fax Number	(562) 426-9544
Site Contact	ERNESTO
Lab Contact	MARIA
Carrier/Waybill Number	
Date	4/27/04
Lab Number	E40280237
Chain of Custody Number	106164
Page	1 of 1

Analysis (Attach list if more space is needed): TOC METHOD 25; TAC RULE 1150.1; TABLE I COMPOUNDS; FIXED GASES (CO2, O2, N2)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TOC METHOD 25	TAC RULE 1150.1	TABLE I COMPOUNDS	FIXED GASES (CO2, O2, N2)	Special Instructions/ Conditions of Receipt
PROBE E-6D	4/27/04	1105	X										X	X		X	

000003

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By [signature]	4/27/04	1130	1. Received By R Bautista	4-27-04	1130
2. Relinquished By R Bautista	4-27-04	1400	2. Received By [signature]	4.27.04	2:05 pm
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT STL

Analytical Report

ANALYTICAL REPORT

234|BRADLEY LANDFILL

Lot #: R4D280237

Ken Pierce

SCS Field Services

SEVERN TRENT LABORATORIES, INC.

Maria Friedman
Project Manager

May 19, 2004

ANALYTICAL REPORT

234|BRADLEY LANDFILL

Lot #: E4D280237

Bruce Matlock

Waste Management Disp. Serv.

SEVERN TRENT LABORATORIES, INC.

Maria Friedman
Project Manager

May 19, 2004

EXECUTIVE SUMMARY - Detection Highlights

E4D280237

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
PROBE E-8D 04/27/04 11:05 001				
Carbon dioxide	190000	100	ppm(v/v)	ASTM D1946
Oxygen	28000	1000	ppm(v/v)	ASTM D1946
Nitrogen	550000	10000	ppm(v/v)	ASTM D1946
Methane	180000	2.0	ppm-c	CFR60A EPA 25C
Total Non-Methane Hydrocarbons	4600	6.0	ppm-c	CFR60A EPA 25C
Vinyl chloride	410 G	25	ppb(v/v)	EPA-2 TO-15

ANALYTICAL METHODS SUMMARY

E4D280237

PARAMETER	ANALYTICAL METHOD
Fixed Gases	ASTM D1946
Non-Condensable	CFR60A EPA 25C
Volatile Organics by TO15	EPA-2 TO-15

References:

ASTM Annual Book Of ASTM Standards.

CFR60A "Test Methods", 40 CFR, Part 60, Appendix A, July 1, 1993.

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

E4D280237

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GE4LA	001	PROBE E-8D	04/27/04	11:05

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SCS FIELD SERVICES

Client Sample ID: PROBE E-8D

GC/MS Volatiles

Lot-Sample #...:	E4D280237-001	**Work Order #...:**	GE4LA1AE	**Matrix.....:**	AIR
Date Sampled...:	04/27/04 11:05	**Date Received..:**	04/27/04		
Prep Date.....:	04/28/04	**Analysis Date..:**	04/28/04		
Prep Batch #...:	4121438	**Analysis Time..:**	17:04		
Dilution Factor:	12.5				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Vinyl chloride	**410 G**	**25**	**ppb(v/v)**
1,1-Dichloroethene	ND G	25	ppb(v/v)
Methylene chloride	ND G	25	ppb(v/v)
1,1-Dichloroethane	ND G	25	ppb(v/v)
Chloroform	ND G	25	ppb(v/v)
1,1,1-Trichloroethane	ND G	25	ppb(v/v)
Carbon tetrachloride	ND G	25	ppb(v/v)
Benzene	ND G	25	ppb(v/v)
1,2-Dichloroethane	ND G	25	ppb(v/v)
Trichloroethene	ND G	25	ppb(v/v)
Toluene	ND G	62	ppb(v/v)
Tetrachloroethene	ND G	25	ppb(v/v)
1,2-Dibromoethane (EDB)	ND G	25	ppb(v/v)
Chlorobenzene	ND G	25	ppb(v/v)
m-Xylene & p-Xylene	ND G	25	ppb(v/v)
o-Xylene	ND G	25	ppb(v/v)
Benzyl chloride	ND G	120	ppb(v/v)
1,3-Dichlorobenzene	ND G	25	ppb(v/v)
1,4-Dichlorobenzene	ND G	25	ppb(v/v)
1,2-Dichlorobenzene	ND G	25	ppb(v/v)

NOTE(S):

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

SCS FIELD SERVICES

Client Sample ID: PROBE E-8D

GC Volatiles

Lot-Sample #...:	E4D280237-001	**Work Order #...:**	GE4LA1AC	**Matrix.....:**	AIR
Date Sampled...:	04/27/04 11:05	**Date Received..:**	04/27/04		
Prep Date.....:	04/28/04	**Analysis Date..:**	04/28/04		
Prep Batch #...:	4120319	**Analysis Time..:**	18:41		
Dilution Factor:	1				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**190000**	**100**	**ppm(v/v)**
Oxygen	**28000**	**1000**	**ppm(v/v)**
Nitrogen	**550000**	**10000**	**ppm(v/v)**

SCS FIELD SERVICES

Client Sample ID: PROBE E-8D

GC Volatiles

Lot-Sample #...:	E4D280237-001	**Work Order #...:**	GE4LA1AD	**Matrix.....:**	AIR
Date Sampled...:	04/27/04 11:05	**Date Received..:**	04/27/04		
Prep Date.....:	04/29/04	**Analysis Date..:**	04/29/04		
Prep Batch #...:	4124547	**Analysis Time..:**	15:15		
Dilution Factor:	1				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methane	**180000**	**2.0**	**ppm-c**
Total Non-Methane Hydrocarbons as Methane	**4600**	**6.0**	**ppm-c**

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E4D280237

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	EPA-2 TO-15		4121438	
	AIR	ASTM D1946		4120319	
	AIR	CFR60A EPA 25C		4124547	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4D280237 **Work Order #...:** GFCT81AA **Matrix.....:** AIR
MB Lot-Sample #: M4D300000-438

Prep Date.....: 04/28/04 **Analysis Time..:** 11:03
Analysis Date..: 04/28/04 **Prep Batch #...:** 4121438 **Instrument ID..:** MSB
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Vinyl chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Methylene chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloroform	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Benzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Toluene	ND	5.0	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Benzyl chloride	ND	10	ppb(v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4D280237 **Work Order #...:** GFE891AA **Matrix.....:** AIR
MB Lot-Sample #: M4D290000-319

Prep Date.....: 04/28/04 **Analysis Time..:** 12:34
Analysis Date..: 04/28/04 **Prep Batch #...:** 4120319 **Instrument ID..:** GC3
Dilution Factor: 1

Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	100	ppm(v/v)	ASTM D1946
Oxygen	ND	1000	ppm(v/v)	ASTM D1946
Nitrogen	ND	10000	ppm(v/v)	ASTM D1946

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4D280237 **Work Order #...:** GFE971AA **Matrix.....:** AIR
MB Lot-Sample #: M4E030000-547

Prep Date.....: 04/28/04 **Analysis Time..:** 23:31
Analysis Date..: 04/28/04 **Prep Batch #...:** 4124547 **Instrument ID..:** GC3
Dilution Factor: 1

Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methane	ND	2.0	ppm-c	CFR60A EPA 25C
Total Non-Methane Hydroca	ND	6.0	ppm-c	CFR60A EPA 25C

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4D280237 **Work Order #...:** GFCT81AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4D300000-438 GFCT81AD-LCSD
Prep Date.....: 04/28/04 **Analysis Date..:** 04/28/04
Prep Batch #...: 4121438 **Analysis Time..:** 09:50
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**102**	**(70 - 125)**			**EPA-2 TO-15**
	96	**(70 - 125)**	**6.7**	**(0-20)**	**EPA-2 TO-15**
Methylene chloride	**92**	**(75 - 120)**			**EPA-2 TO-15**
	85	**(75 - 120)**	**7.1**	**(0-20)**	**EPA-2 TO-15**
Trichloroethene	**89**	**(70 - 125)**			**EPA-2 TO-15**
	87	**(70 - 125)**	**1.8**	**(0-20)**	**EPA-2 TO-15**
Toluene	**88**	**(75 - 125)**			**EPA-2 TO-15**
	86	**(75 - 125)**	**2.8**	**(0-20)**	**EPA-2 TO-15**
1,1,2,2-Tetrachloroethane	**87**	**(65 - 130)**			**EPA-2 TO-15**
	85	**(65 - 130)**	**3.3**	**(0-20)**	**EPA-2 TO-15**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4D280237 **Work Order #...:** GFCT81AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4D300000-438 GFCT81AD-LCSD
Prep Date.....: 04/28/04 **Analysis Date..:** 04/28/04
Prep Batch #...: 4121438 **Analysis Time..:** 09:50
Dilution Factor: 1 **Instrument ID...:** MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**59.2**	**60.5**	**ppb(v/v)**	**102**		**EPA-2 TO-15**
	59.2	**56.6**	**ppb(v/v)**	**96**	**6.7**	**EPA-2 TO-15**
Methylene chloride	**58.7**	**53.8**	**ppb(v/v)**	**92**		**EPA-2 TO-15**
	58.7	**50.1**	**ppb(v/v)**	**85**	**7.1**	**EPA-2 TO-15**
Trichloroethene	**59.5**	**52.9**	**ppb(v/v)**	**89**		**EPA-2 TO-15**
	59.5	**52.0**	**ppb(v/v)**	**87**	**1.8**	**EPA-2 TO-15**
Toluene	**55.7**	**49.0**	**ppb(v/v)**	**88**		**EPA-2 TO-15**
	55.7	**47.7**	**ppb(v/v)**	**86**	**2.8**	**EPA-2 TO-15**
1,1,2,2-Tetrachloroethane	**55.4**	**48.4**	**ppb(v/v)**	**87**		**EPA-2 TO-15**
	55.4	**46.8**	**ppb(v/v)**	**85**	**3.3**	**EPA-2 TO-15**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4D280237
Work Order #...: GFE891AC-LCS GFE891AD-LCSD
Matrix.....: AIR
LCS Lot-Sample#: M4D290000-319
Prep Date.....: 04/28/04
Analysis Date..: 04/28/04
Prep Batch #...: 4120319
Analysis Time..: 11:46
Dilution Factor: 1
Instrument ID..: GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	**93**	**(75 - 125)**			**ASTM D1946**
	93	**(75 - 125)**	**0.29**	**(0-20)**	**ASTM D1946**
Methane	**96**	**(75 - 135)**			**ASTM D1946**
	96	**(75 - 135)**	**0.12**	**(0-20)**	**ASTM D1946**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4D280237 **Work Order #...:** GFE891AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4D290000-319 GFE891AD-LCSD
Prep Date.....: 04/28/04 **Analysis Date..:** 04/28/04
Prep Batch #...: 4120319 **Analysis Time..:** 11:46
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	**10000**	**9270**	**ppm(v/v)**	**93**		**ASTM D1946**
	10000	**9300**	**ppm(v/v)**	**93**	**0.29**	**ASTM D1946**
Methane	**500**	**482**	**ppm(v/v)**	**96**		**ASTM D1946**
	500	**482**	**ppm(v/v)**	**96**	**0.12**	**ASTM D1946**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4D280237 **Work Order #...:** GFE971AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4E030000-547 GFE971AD-LCSD
Prep Date.....: 04/28/04 **Analysis Date..:** 04/28/04
Prep Batch #...: 4124547 **Analysis Time..:** 22:43
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Non-Methane Hydrocar	**102**	**(80 - 120)**			**CFR60A EPA 25C**
	102	**(80 - 120)**	**0.020**	**(0-20)**	**CFR60A EPA 25C**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...:	E4D280237	**Work Order #...:**	GFE971AC-LCS	**Matrix.....:**	AIR
LCS Lot-Sample#:	M4E030000-547		GFE971AD-LCSD		
Prep Date.....:	04/28/04	**Analysis Date..:**	04/28/04		
Prep Batch #...:	4124547	**Analysis Time..:**	22:43		
Dilution Factor:	1	**Instrument ID..:**	GC3		
Analyst ID.....:	101605				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Non-Methane Hydrocar	**6000**	**6100**	**ppm-c**	**102**		**CFR60A EPA 25C**
	6000	**6100**	**ppm-c**	**102**	**0.020**	**CFR60A EPA 25C**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

From: Origin ID: (714)258-8610
SANDRA J. PADILLA
SEVERN TRENT SERVICES
1721 S. GRAND AVE

SANTA ANA, CA 92705

FedEx Express

Ship Date: 21MAY04
Actual Wgt: 1 LB
System#: 3851643/INET1800
Account#: S *********

REF: E4D280237

Delivery Address Bar Code

SHIP TO: (714)258-8610 BILL SENDER
KEN PIERCE
SCS FIELD SERVICES
3711 LONG BEACH BLVD.
SUITE 806
LONG BEACH, CA 90807

STANDARD OVERNIGHT

MON
Deliver By:
24MAY04

TRK# 7918 4896 2231 FORM 0201

LGB A1

90807 -CA-US

QZ LGBA

Shipping Label: Your shipment is complete

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

SCS FIELD SERVICES, INC.

TEDLAR BAG PURGING/INSPECTION/FIELD DATA SHEET

Site: BLRC **Date:** 4/27/04

Start Time: 0720 HRS **Completion Time:** 0726 HRS.

Technician: ERNESTO MARTINEZ **Bag ID No.:** BL-001

Visual Condition of Bag: OK

Bag Leak Test: Pass ☑ Fail ☐

Bag Filled and Emptied Three Times with N_2: Yes ☑ No ☐

Bag Valve Shut Off: Yes ☑ No ☐

Bag Stored and Checklist Completed: Yes ☑ No ☐

Field Information

Personnel: ERNESTO MARTINEZ

Sample Location: PROBE E-BD **Sample No.:**

Sample Type: Ambient Air ISS LFG (Probes) Head Space

Program start date: 4/27/04 Time: 1105 HRS.
Program stop date: 4/27/04 Time: 1118 HRS.

Program timer setting: — Actual time: —

Rotometer setting: Start — Stop —

Field readings: 36.7% Methane
— Other (specify) —

Observations: CO_2 → 23.22
O_2 → 2.37
N_2 → 48.82

APPENDIX C

INTEGRATED SURFACE EMISSION MONITORING

- Field Sheets
- Laboratory Analysis
- Sample Chain-of-Custody
- Integrated Sampling QA/QC Forms
- Instrumentation Calibration

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Tom Shivlin, Les Orr, Craig Markley, AL Rodriguez, Mike Gorgei

Date: 4/27/04 Instrument Used: ISS Packs

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
73	PP	0730	0755	5	.333	1/2	
61	LO	0730	0755	4		1/2	
60	AR	0730	0755	5		1/2	
55	TS	0730	0755	5		1/2	
52	PP	0800	0825	5		2/3	
49	LO	0800	0825	4		2/3	
47	AR	0800	0825	5		2/3	
45	TS	0800	0825	4		2/3	
40	PP	0830	0855	4		4/3	
39	LO	0830	0855	5		4/3	
37	AR	0830	0855	5		4/3	
23	TS	0830	0855	5		4/3	
22	PP	0900	0925	5		4/3	
24	LO	0900	0925	6		4/3	
21	AR	0900	0925	5		4/3	
20	TS	0900	0925	5		4/3	
6	PP	0930	0955	5		3/3	
5	LO	0930	0955	6		3/3	
4	AR	0930	0955	5		3/3	
3	TS	0930	0955	6		3/3	
2	PP	1000	1025	5		1/2	
1	LO	1000	1025	5		1/2	
34	AR	1000	1025	5		1/2	
35	TS	1000	1025	5		1/2	
36	CM	1000	1025	4		1/2	
38	MG	1000	1025	5		1/2	
44	PP	1030	1055	5		2/4	
46	LO	1030	1055	5		2/4	
48	AR	1030	1055	4		2/4	
51	TS	1030	1055	4	↓	2/4	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Tom Shelvlin, Les Orr, Craig Markley, AL Rodriquez, Mike Gorgei

Date: 4/27/04 Instrument Used: ISS Packs

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
54	CM	1030	1055	5	.333	2-4	
80	MG	1030	1055	6		2-4	
74	PP	1200	1225	5		1-3	
63	LO	1200	1225	4		1-3	
31	AR	1200	1225	5		1-3	
10	TS	1200	1225	5		1-3	
9	CM	1200	1225	6		1-3	
8	MG	1200	1225	4		1-3	
7	PP	1230	1255	5		2-4	
32	LO	1230	1255	5		2-4	
33	AR	1230	1255	5		2-4	
41	TS	1230	1255	5		2-4	
42	CM	1230	1255	4		2-4	
43	MG	1230	1255	4		2-4	
50	PP	1300	1325	5		2-5	
53	LO	1300	1325	5		2-5	
57	AR	1300	1325	5		2-5	
64	TS	1300	1325	5		2-5	
67	CM	1300	1325	5		2-5	
71	MG	1300	1325	4		2-5	
56	PP	1330	1355	4		3-6	
69	LO	1330	1355	6		3-6	
70	AR	1330	1355	5		3-6	
75	TS	1330	1355	5		3-6	
76	CM	1330	1355	5		3-6	
77	MG	1330	1355	5		3-6	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, AL Rodriguez, Craig Markley, Les Orr, Mike Gorgei, John Espinoza

Date: 4/29/04 Instrument Used: OVA 128/88 -ISS Packs

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
132	PP	0705	0730	4	.333	3/16	
131	CM	0705	0730	4		3/16	
127	MG	0705	0730	3		3/16	
126	AL	0705	0730	3		3/16	
125	LO	0705	0730	4		3/16	
124	JE	0705	0730	4		3/16	
123	PP	0735	0800	5		3/15	
118	CM	0735	0800	3		3/15	
119	MG	0735	0800	3		3/15	
120	AL	0735	0800	3		3/15	
121	LO	0735	0800	4		3/15	
122	JE	0735	0800	4		3/15	
117	PP	0805	0830	5		3/15	
115	CM	0805	0830	5		3/15	
110	MG	0805	0830	5		3/15	
106	AL	0805	0830	6		3/15	
103	LO	0805	0830	5		3/15	
99	JE	0805	0830	5		3/15	
96	PP	0835	0900	5		1/12	
90	CM	0835	0900	4		1/12	
85	MG	0835	0900	4		1/12	
84	AL	0835	0900	5		1/12	
81	LO	0835	0900	4		1/12	
83	JE	0835	0900	5		1/12	
87	PP	0905	0930	5		1/12	
89	CM	0905	0930	5		1/12	
95	MG	0905	0930	4		1/12	
98	AL	0905	0930	6		1/12	
102	LO	0905	0930	5		1/12	
105	JE	0905	0930	5		1/12	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, AL Rodriguez
Craig Markley, Les Orr
Mike Gorgei, John Espinoza

Date: 4/29/04 Instrument Used: OVA 128/FF – ISS Packs

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
109	PP	0935	1000	4	.333	1/10	
114	CM	0935	1000	4		1/10	
116	MG	0935	1000	3		1/10	
113	AL	0935	1000	3		1/10	
108	LO	0935	1000	3		1/10	
104	JE	0935	1000	4		1/10	
101	PP	1005	1030	3		2/6	
97	CM	1005	1030	4		2/6	
94	MG	1005	1030	5		2/6	
88	AL	1005	1030	4		2/6	
86	LO	1005	1030	3		2/6	
82	JE	1005	1030	7		2/6	
79	PP	1035	1100	5		3/5	
78	CM	1035	1100	5		3/5	
93	MG	1035	1100	5		3/5	
107	AL	1035	1100	5		3/5	
111	LO	1035	1100	6		3/5	
112	JE	1035	1100	5		3/5	
128	PP	1200	1225	6		1/7	
129	CM	1200	1225	5		1/7	
130	MG	1200	1225	4		1/7	
100	AL	1200	1225	3		1/7	
92	LO	1200	1225	3		1/7	
91	JE	1200	1225	4		1/7	
62	PP	1230	1255	5		1/7	
30	CM	1230	1255	5		1/7	
29	MG	1230	1255	4		1/7	
28	AL	1230	1255	4		1/7	
27	LO	1230	1255	5		1/7	
26	JE	1230	1255	5	↓	1/7	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, AL Rodriguez, Craig Markley, Les Orr, Mike Gorgei, John Espinoza

Date: 4/29/04 Instrument Used: ESS Packs / OVA 128

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
25	PP	1300	1325	4	.333	2/7	
19	CM	1300	1325	4		2/7	
11	MG	1300	1325	5		2/7	
12	AL	1300	1325	5		2/7	
13	LO	1300	1325	5		2/7	
14	JE	1300	1325	4		2/7	
15	MG	1330	1355	5		2/6	
16	AL	1330	1355	5		2/6	
17	LO	1330	1355	5		2/6	
18	JE	1330	1355	5		2/6	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Paul Ponce

Date: 4/29/04 Instrument Used: _____

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
58							Active Dumping
65							↓
68							
72							
59							
66							

Attach Calibration Sheet
Attach site map showing grid ID

KES
ENVIRONMENTAL INC.

OVA CALIBRATION LOG

Landfill: Bradley

OPERATOR INITIALS	DATE	BATTERY CHECK	FLOW METER READING	ZONE READING			CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS						3PT. CALIBRATION CHECK		
				10	100	1000	LOW		MED		HIGH		LOW		MED		HIGH				
				PPM	PPM	PPM	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	PPM	PPM
PP	9/27/19	OK	1.5	—					50	50					50	50	—			50	—

ENVIRONMENTAL INC.

OVA CALIBRATION LOG

Landfill: Bradley

OPERATOR INITIALS	DATE	BATTERY CHECK	FLOW METER READING	ZONE READING			CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS						3PT. CALIBRATION CHECK		
				10	100	1000	LOW		MED		HIGH		LOW		MED		HIGH				
				PPM	PPM	PPM	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	PPM	PPM
PP	9/29/09	OK	1.5						50	50					50	50				50	

RES Environmental Inc.

LOCATION: Bradley

INTEGRATED SURFACE SAMPLING SHEET

GRID # 88

SAMPLE # _____

CLASS # _____

BAG # _____

SAMPLER # 11

WIND SPEED _____ mph

WIND DIRECTION _____ 16 pt

METHANE CONCENTRATION: 4 ppm

DATE: 4-29-04

FLOW START: .333 cc

FLOW STOP: .337 cc

TIME START: 1005

TIME STOP: 1030

BAG STATUS:
(✓) FULL ( ) 3/4
( ) 1/2 ( ) 1/4

TECHNICIAN: (Signature) [signature]

THE TECHNICIAN WILL BE INSPECTING FOR THE FOLLOWING:
1. SETTLEMENT CRACKS; 2. SHRINKAGE CRACKS; 3. SLUMPING;
4. SURFACE DEPRESSION; 5. EXCESSIVELY DRY OR WET AREAS;
6. RODENT BURROWS; 7. COVER SOIL EROSIONS

COMMENTS: _____

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

RES Environmental Inc.

LOCATION: Bradley

INTEGRATED SURFACE SAMPLING SHEET

GRID # 86

SAMPLE # _____

CLASS # _____

BAG # _____

SAMPLER # 14

WIND SPEED _____ mph

WIND DIRECTION _____ 16 pt

METHANE CONCENTRATION: 3 ppm

DATE: 4-29-04

FLOW START: 333 cc

FLOW STOP: 333 cc

TIME START: 1005

TIME STOP: 1030

BAG STATUS:
( ) FULL ( ) 3/4
( ) 1/2 ( ) 1/4

TECHNICIAN: (Signature) [signature]

THE TECHNICIAN WILL BE INSPECTING FOR THE FOLLOWING:
1. SETTLEMENT CRACKS; 2. SHRINKAGE CRACKS; 3. SLUMPING;
4. SURFACE DEPRESSION; 5. EXCESSIVELY DRY OR WET AREAS;
6. RODENT BURROWS; 7. COVER SOIL EROSIONS

COMMENTS: _____

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250
environmental consultants
laboratory services

May 10, 2004

LTR/251/04

Debby Sederholm
SCS Field Services, Inc.
3711 Long Beach Blvd., 9th Floor
Long Beach, CA 90807

re: Bradley samples

Dear Debby:

Please find enclosed a copy the laboratory analysis reports, quality assurance summaries, and the chain of custody forms for two ISS and four ambient air Tedlar bag samples received April 30 & May 4, 2004.

The Tedlar bag samples were analyzed for SCAQMD 1150.1 components, methane , and total gaseous non-methane organics (TGNMO) as requested on the chain of custody forms.

The original Bradley reports were sent to Bruce Matlock at Bradley Landfill.

Sincerely,

AtmAA, Inc.

Michael L. Porter
Laboratory Director

Encl.
MLP/bwf

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

environmental consultants
laboratory services

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples

Report Date: May 5, 2004
Client: Waste Management
Project Location: Bradley Landfill
Date Received: April 30, 2004
Date Analyzed: April 30-May 3, 2004

AtmAA Lab No.:	01214-16	01214-17
Sample I.D.:	ISS Grid 88	ISS Grid 86
Components	(Concentration in ppmv)	
Methane	1.90	1.81
TGNMO	1.09	1.50
	(Concentration in ppbv)	
Hydrogen sulfide	<50	<50
Benzene	0.24	0.28
Benzylchloride	<0.5	<0.5
Chlorobenzene	<0.1	<0.1
Dichlorobenzenes*	<1.1	<1.1
1,1-dichloroethane	<0.1	<0.1
1,2-dichloroethane	<0.1	<0.1
1,1-dichloroethylene	<0.1	<0.1
Dichloromethane	0.14	0.22
1,2-dibromoethane	<0.1	<0.1
Perchloroethene	<0.1	<0.1
Carbon tetrachloride	0.12	0.12
Toluene	1.86	0.96
1,1,1-trichloroethane	<0.1	<0.1
Trichloroethene	<0.1	<0.1
Chloroform	<0.1	<0.1
Vinyl chloride	<0.1	<0.1
m+p-xylenes	0.46	0.48
o-xylene	0.10	0.10

TGNMO is total gaseous non-methane organics measured and reported as ppm methane.
** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: April 30, 2004
Date Analyzed: April 30-May 3, 2004

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	Grid 88	1.92	1.89	1.90	0.79
TGNMO	Grid 88	1.04	1.14	1.09	4.6
		(Concentration in ppbv)			
Hydrogen sulfide	Grid 88	<50	<50	---	---
Benzene	Grid 88	0.22	0.25	0.24	6.4
Benzylchloride	Grid 88	<0.5	<0.5	---	---
Chlorobenzene	Grid 88	<0.1	<0.1	---	---
Dichlorobenzenes	Grid 88	<1.1	<1.1	---	---
1,1-dichloroethane	Grid 88	<0.1	<0.1	---	---
1,2-dichloroethane	Grid 88	<0.1	<0.1	---	---
1,1-dichloroethylene	Grid 88	<0.1	<0.1	---	---
Dichloromethane	Grid 88	0.13	0.15	0.14	7.1
1,2-dibromoethane	Grid 88	<0.1	<0.1	---	---
Perchloroethene	Grid 88	<0.1	<0.1	---	---
Carbon tetrachloride	Grid 88	0.12	0.12	0.12	0.0
Toluene	Grid 88	1.77	1.94	1.86	4.6
1,1,1-trichloroethane	Grid 88	<0.1	<0.1	---	---
Trichloroethene	Grid 88	<0.1	<0.1	---	---
Chloroform	Grid 88	<0.1	<0.1	---	---
Vinyl chloride	Grid 88	<0.1	<0.1	---	---
m+p-xylenes	Grid 88	0.42	0.49	0.46	7.7
o-xylene	Grid 88	0.10	0.10	0.10	0.0

Two Tedlar bag samples, laboratory numbers 01214-(16 & 17), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 8 repeat measurements from two Tedlar bag samples is 3.9%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS / Waste Management	Bradley Landfill
Project No.	**Field Logbook No.**
1150.1	
Sampler: (Print)	**(Signature)**
Paul Ponce	

No. Of Containers: 2

ANALYSES: Methane | TNMH | TAC

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	Methane	TNMH	TAC			Remarks
Grid 89	4/29/04	1005-1030	0214-16	Tedlar 10L Bag	x	x	x			
Grid 86	4/29/04	1005-1030	0214-17	Tedlar 10L Bag	x	x	x			

	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	4/30/04	8:35	Jim Jorgensen	4-30	0837
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
				4-30-04	12:15
Relinquished by: (Signature)	Date	Time	Received for Laboratory: (Signature)	Date	Time
				Date	Time

Sample Disposal Method:	Disposed of by: (Signature)	Date	Time

Sample Collector

RES Environmental Inc.
865 Via Lata • Colton, California 92324
(909) 422-1001 Fax (909) 422-0707

Analytical Laboratory

Atmaa

APPENDIX D

INSTANTANEOUS SURFACE EMISSION MONITORING

- Field Sheets
- Instrumentation Calibration

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Les Orr, Bart Cerini, Craig Markley, John Espinoza, Mike Gorgei

Date: 4/22/04 Instrument Used: OVA 88/128

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
132	PP	0715	0730	5	
131	BC	0715	0730	5	
127	JE	0715	0730	5	
126	LO	0715	0730	5	
125	PP	0730	0745	5	
119	BC	0730	0745	5	
120	JE	0730	0745	5	
121	LO	0730	0745	5	
122	PP	0745	0800	5	
117	BC	0745	0800	5	
115	JE	0745	0800	3,000	Sump 15 and spot N of it. (50ft)
[illegible]	LO	0745	0800	5	
106	PP	0800	0815	5	
103	BC	0800	0815	5	
99	JE	0800	0815	5	
96	LO	0800	0815	5	
90	PP	0815	0830	5	
85	BC	0815	0830	5	
84	JE	0815	0830	5	
81	LO	0815	0830	5	
61	PP	0830	0845	5	
60	BC	0830	0845	5	
55	JE	0830	0845	5	
52	LO	0830	0845	5	
49	CM	0830	0845	5	
47	MG	0830	0845	5	
40	PP	0845	0900	5	
45	BC	0845	0900	5	
39	JE	0845	0900	5	
37	LO	0845	0900	500	Well 36 S/D

Att[illegible] Calibration Sheet
Att[illegible] site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Les Orr, Bart Cerini, Craig Markley, John Espinoza, Mike Gorgei

Date: 4/22/04 Instrument Used: OVA 88/128

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
23	CM	0845	0900	5	
22	MG	0845	0900	5	
24	PP	0900	0915	5	
21	BC	0900	0915	5	
20	JE	0900	0915	5	
6	LO	0900	0915	5	
5	CM	0900	0915	5	
4	MG	0900	0915	5	
3	PP	0915	0930	5	
2	BC	0915	0930	5	
1	JE	0915	0930	5	
34	LO	0915	0930	5	
35	CM	0915	0930	5	
36	MG	0915	0930	5	
38	PP	0930	0945	5	
44	BC	0930	0945	5	
46	JE	0930	0945	5	
48	LO	0930	0945	5	
51	CM	0930	0945	5	
54	MG	0930	0945	5	
80	PP	0945	1000	5	
83	BC	0945	1000	5	
87	JE	0945	1000	5	
89	LO	0945	1000	5	
95	CM	0945	1000	5	
98	MG	0945	1000	5	
102	PP	1000	1015	5	
105	BC	1000	1015	2,000	well 210
109	JE	1000	1015	5	
114	LO	1000	1015	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Les Orr, Bart Cestri, Craig Markley, John Espinoza, Mike Gorge

Date: 4/22/04 Instrument Used: OVA 88 / 128

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
116	CM	1000	1015	5	
118	MG	1000	1015	5	
123	PP	1215	1030	5	
124	BC	1015	1030	5	
113	JE	1015	1030	5	
108	LO	1015	1030	5	
104	CM	1015	1030	5	
101	MG	1015	1030	5	
97	PP	1030	1045	5	
94	BC	1030	1045	5	
88	JE	1030	1045	5	
86	LO	1030	1045	5	
82	CM	1030	1045	5	
79	MG	1030	1045	5	
71	PP	1045	1100	5	
67	BC	1045	1100	5	
64	JE	1045	1100	5	
57	LO	1045	1100	5	
53	CM	1045	1100	5	
50	MG	1045	1100	5	
43	PP	1200	1215	5	
32	BC	1200	1215	5	
33	JE	1200	1215	5	
41	LO	1200	1215	5	
42	CM	1200	1215	5	
56	MG	1200	1215	5	
69	PP	1215	1230	5	
70	BC	1215	1230	5	
77	JE	1215	1230	5	
76	LO	1215	1230	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Les Orr, Bart Cerini, Craig Markley, John Espinoza, Mike Gorgei

Date: 4/22/04 Instrument Used: OVA 88/128

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
75	CM	1215	1230	5	
78	MG	1215	1230	5	
93	PP	1230	1245	5	
107	BC	1230	1245	5	
111	JE	1230	1245	5	
112	LO	1230	1245	5	
128	CM	1230	1245	5	
129	MG	1230	1245	5	
130	PP	1245	1300	5	
100	BC	1245	1300	5	
92	JE	1245	1300	5	
91	LO	1245	1300	5	
74	CM	1245	1300	5	
63	MG	1245	1300	5	
31	BC	1300	1315	5	
10	JE	1300	1315	5	
9	LO	1300	1315	5	
8	CM	1300	1315	5	
7	MG	1300	1315	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce

Date: 4/22/04 Instrument Used:

Temperature:

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
58					Active Dumping
65					
68					
72					
59					
66					
73					

Attach Calibration Sheet
Attach site map showing grid ID

NES

ENVIRO[illegible]ENTAL INC.

OVA CALIBRATION LOG

Landfill: Bradley Landfill

OPERATOR INITIALS	DATE	BATTERY CHECK	FLOW METER READING	ZONE READING			CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS						3PT. CALIBRATION CHECK		
				10	100	1000	LOW		MED		HIGH		LOW		MED		HIGH				
				PPM	PPM	PPM	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	PPM	PPM
PP	4/22/04	OK	1.5	—							500	500					520	500	—		500
BC	4/22/04	OK	1.5	—							500	500					520	500	—		500
JE	4/22/04	OK	1.5	—							500	500					520	500	—		500
LO	4/22/04	OK	1.5	—							500	500					520	540	—		500
CM	4/22/04	OK	1.5	—							500	500					500	500	—		500
MG	4/22/04	OK	1.5	—							500	500					520	520	—		500
											500	500					520	520	—		500

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, John Espinoza, Craig Markley, AL Rodriguez, Mike Gorgei

Date: 5/26/04 Instrument Used: OVA 128/88

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
132	PP	0700	0715	6	
131	CM	0700	0715	5	
127	MG	0700	0715	5	
124	JE	0700	0715	5	
125	AR	0700	0715	5	
123	PP	0715	0730	5	
118	CM	0715	0730	5	
119	MG	0715	0730	5	
120	JE	0715	0730	5	
121	AR	0715	0730	5	
122	PP	0730	0745	5	
117	CM	0730	0745	5	
115	MG	0730	0745	5	
110	JE	0730	0745	5	
106	AR	0730	0745	5	
103	PP	0745	0800	5	
99	CM	0745	0800	5	
96	MG	0745	0800	5	
90	JE	0745	0800	5	
85	AR	0745	0800	5	
84	PP	0800	0815	5	
81	CM	0800	0815	5	
73	MG	0800	0815	5	
66	JE	0800	0815	5	
59	AR	0800	0815	500	spot next to well 72 s/o
61	PP	0815	0830	5	
60	CM	0815	0830	5	
55	MG	0815	0830	5	
52	JE	0815	0830	5	
49	AR	0815	0830	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, John Espinoza, Craig Markley, AL Rodriguez, Mike Gargi

Date: 5/26/04 Instrument Used: OVA 128/88

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
47	PP	0830	0845	5	
40	CM	0830	0845	5	
45	MG	0830	0845	5	
39	JE	0830	0845	5	
37	AR	0830	0845	1000	EW 36
23	PP	0845	0900	10,000	Area SE of well 62 S/D, broken pipe
22	CM	0845	0900	5	
24	MG	0845	0900	10,000	Area SE of well 62 S/D
21	JE	0845	0900	5	
20	AR	0845	0900	5	
6	PP	0900	0915	5	
5	CM	0900	0915	5	
1	MG	0900	0915	5	
3	JE	0900	0915	5	
2	AR	0900	0915	5	
1	PP	0915	0930	5	
34	CM	0915	0930	5	
32	MG	0915	0930	5	
33	JE	0915	0930	5	
35	AR	0915	0930	5	
36	PP	0930	0945	5	
38	CM	0930	0945	5	
44	MG	0930	0945	5	
41	JE	0930	0945	5	
48	AR	0930	0945	5	
51	PP	0945	1000	5	
54	CM	0945	1000	5	
58	MG	0945	1000	5	
65	JE	0945	1000	5	
68	AR	0945	1000	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ance, John Espinoza, Craig Markley, Al Rodriguez, Mike Gorgei

Date: 5/26/04 Instrument Used: OVA 128/88

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
72	PP	1000	1015	5	
80	CM	1000	1015	5	
83	MG	1000	1015	5	
87	JE	1000	1015	5	
89	AR	1000	1015	5	
95	PP	1015	1030	5	
98	CM	1015	1030	5	
102	MG	1015	1030	5	
105	JE	1015	1030	5	
109	AR	1015	1030	5	
114	PP	1030	1045	5	
116	CM	1030	1045	5	
126	MG	1030	1045	5	
113	JE	1030	1045	5	
108	AR	1930	1045	5	
104	PP	1045	1100	5	
101	CM	1045	1100	5	
97	MG	1045	1100	5	
94	JE	1045	1100	5	
88	AR	1045	1100	5	
86	PP	1200	1215	5	
82	CM	1200	1215	5	
79	MG	1200	1215	5	
43	JE	1200	1215	5	
42	AR	1200	1215	5	
41	PP	1215	1230	5	
56	CM	1215	1230	5	
69	MG	1215	1230	5	
70	JE	1215	1230	5	
77	AR	1215	1230	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, John Espinoza, Craig Markley, AL Rodriguez, Mike Gorgei

Date: 5/26/04 Instrument Used: OVA 128/188

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
76	PP	1230	1245	5	
75	CM	1230	1245	5	
78	MG	1230	1245	5	
93	JE	1230	1245	5	
107	AR	1230	1245	5	
111	PP	1245	1300	5	
112	CM	1245	1300	100,000	Area along road NE of SILR
130	MG	1245	1300	5	
129	JE	1245	1300	5	
128	AR	1245	1300	5	
91	PP	1300	1315	5	
92	CM	1300	1315	5	
00	MG	1300	1315	5	
74	JE	1300	1315	5	
63	AR	1300	1315	5	
31	PP	1315	1330	5	
10	CM	1315	1330	5	
9	MG	1315	1330	5	
8	JE	1315	1330	5	
7	AR	1315	1330	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce

Date: 5/26/04 Instrument Used:

Temperature:

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
50					Active Dumping
53					
57					
64					
67					
71					

Attach Calibration Sheet
Attach site map showing grid ID

RES
ENVIRONMENTAL INC.

OVA CALIBRATION LOG

Landfill: Bradley (OVA)

OPERATOR INITIALS	DATE	BATTERY CHECK	FLOW METER READING	ZONE READING			CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS						3PT. CALIBRATION CHECK		
				10	100	1000	LOW		MED		HIGH		LOW		MED		HIGH				
				PPM	PPM	PPM	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	PPM	PPM
PP	5/26/04	ok	1.5	—							500	500	—				500	500	—	—	500
CM	5/26/04	Ok	1.5	—							500	500	—				500	500	—	—	500
MG	5/26/04	ok	1.5	—							500	500	—				500	500	—	—	500
JE	5/26/04	ok	1.5	—							500	500	—				500	500	—	—	500
AR	5/26/04	Ok	1.5	—							500	500	—				500	500	—	—	500
											500	500	—				500	500	—	—	500

LOG OF REMEDIAL WORK FOR INSTANTANEOUS SURFACE MONITORING

Site Name: Bradley Monitoring Period: Personnel: Paul Ponce

	INITIAL MONITORING		FIRST	SECOND MONITORING		SECOND	THIRD MONITORING	
Grid No.	Date	Toc	Remedial Work	Date	Toc	Remedial Work	Date	Toc
59	5/26/04	500	adj. well	6/3/04	3			
37	5/26/04	1000	adj. well	6/3/04	1,500	adj. well	6/11/04	200
23	5/26/04	10,000	Truck walked/ water	6/3/04	200			
24	5/26/04	10,000	Truck walked/ water	6/3/04	200			
112	5/26/04	100,000	Water fill dirt.	6/3/04	2,000	Water	6/11/04	350

1. Monitoring Date
2. TOC Reading in PPM

Signature:

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Tim Lynch, Robert Johns, Noah Cureton, John Espinoza

Date: 6-17-04 Instrument Used: OVA 128/88

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
132	PP	0715	0730	5	
131	RJ	0715	0730	100,000	spots bottom of slope
127	JE	0715	0730	100,000	spots bottom of slope
126	TL	0715	0730	5	
125	NC	0715	0730	5	
119	PP	0730	0745	5	
120	RJ	0730	0745	5	
121	JE	0730	0745	5	
122	TL	0730	0745	5	
117	NC	0730	0745	5	
115	PP	0745	0800	5	
110	RJ	0745	0800	5	
106	JE	0745	0800	5	
103	TL	0745	0800	5	
99	NC	0745	0800	5	
96	PP	0800	0815	5	
90	RJ	0800	0815	5	
85	JE	0800	0815	5	
84	TL	0800	0815	5	
81	NC	0800	0815	5	
73	PP	0815	0830	5	
66	RJ	0815	0830	5	
59	JE	0815	0830	5	
60	TL	0815	0830	5	
61	NC	0815	0830	5	
55	PP	0830	0845	5	
52	RJ	0830	0845	5	
49	JE	0830	0845	5	
47	TL	0830	0845	5	
40	NC	0830	0845	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Tim Lynch, Robert Johns, Noah Cureton, John Espinoza

Date: 6-17-04 Instrument Used: OVA 128/88

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
45	PP	0845	0900	5	
39	RJ	0845	0900	5	
37	JE	0845	0900	5	
23	TL	0845	0900	5	
22	NC	0845	0900	20,000	spots S of well 62
24	PP	0900	0915	5	
21	RJ	0900	0915	5	
20	JE	0900	0915	5	
6	TL	0900	0915	5	
5	NC	0900	0915	500	spots N of of EW30.
4	PP	0915	0930	5	
3	RJ	0915	0930	5	
2	JE	0915	0930	5	
1	TL	0915	0930	5	
34	NC	0915	0930	5	
35	PP	0930	0945	5	
36	RJ	0930	0945	5	
38	JE	0930	0945	5	
44	TL	0930	0945	5	
58	NC	0930	0945	5	
65	PP	0945	1000	5	
68	RJ	0945	1000	5	
72	JE	0945	1000	5	
80	TL	0945	1000	5	
83	NC	0945	1000	5	
87	PP	1000	1015	5	
89	RJ	1000	1015	5	
95	JE	1000	1015	5	
98	TL	1000	1015	5	
102	NC	1000	1015	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Tim Lynch, Robert Johns, Noah Curetan, John Espinoza

Date: 6-7-04 Instrument Used: SVA 88/128

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
105	PP	1015	1030	5	
109	RJ	1015	1030	5	
114	JE	1015	1030	5	
116	TL	1015	1030	5	
118	NC	1015	1030	1000	spots middle and bottom of slope
123	PP	1030	1045	30,000	SVE 14 and spots bottom of slope
124	RJ	1030	1045	100,000	spots bottom of slope
113	JE	1030	1045	5	
108	TL	1030	1045	5	
104	NC	1030	1045	1000	well 211
91	PP	1045	1100	5	
97	RJ	1045	1100	5	
94	JE	1045	1100	5	
88	TL	1045	1100	5	
86	NC	1045	1100	5	
82	PP	1130	1145	5	
79	RJ	1130	1145	5	
71	JE	1130	1145	5	
67	TL	1130	1145	5	
64	NC	1130	1145	5	
57	PP	1145	1200	5	
53	RJ	1145	1200	5	
50	JE	1145	1200	5	
43	TL	1145	1200	5	
32	NC	1145	1200	5	
33	PP	1200	1215	5	
41	RJ	1200	1215	5	
42	JE	1200	1215	5	
56	TL	1200	1215	5	
69	NC	1200	1215	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Tim Lynch
Robert Johns, Noah Coreton
John Espinoza

Date: 6-17-04 Instrument Used: OVA 128/88

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
70	PP	1215	1230	5	
77	RJ	1215	1230	5	
76	JE	1215	1230	5	
75	TL	1215	1230	5	
78	NC	1215	1230	5	
93	PP	1230	1245	5	
107	RJ	1230	1245	5	
111	JE	1230	1245	5	
112	TL	1230	1245	10,000	spots bottom and middle of slope, cap well U of SWR
128	NC	1230	1245	5	
129	PP	1245	1300	5	
130	RJ	1245	1300	5	
100	JE	1245	1300	5	
92	TL	1245	1300	5	
91	NC	1245	1300	5	
74	PP	1300	1315	5	
63	RJ	1300	1315	5	
31	JE	1300	1315	5	
10	TL	1300	1315	5	
9	NC	1300	1315	5	
8	PP	1315	1330	5	
7	RJ	1315	1330	5	
19	JE	1315	1330	5	
11	TL	1315	1330	5	
12	NC	1315	1330	5	
13	PP	1330	1345	5	
14	RJ	1330	1345	5	
15	JE	1330	1345	5	
16	TL	1330	1345	5	
17	NC	1330	1345	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

sonnel: Paul Ponce, Tim Lynch
Robert Johns, Noah Cureton
John Espinoza

Date: 6-17-04 Instrument Used: OVA 128/88

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
18	PP	1345	1400	5	
25	RJ	1345	1400	5	
26	JE	1345	1400	5	
27	TL	1345	1400	5	
28	NC	1345	1400	5	
29	JE	1400	1415	5	
30	TL	1400	1415	5	
62	NC	1400	1415	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Pace

Date: 6/17-04 Instrument Used:

Temperature:

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
46					Active Dumping
48					↓
51					
54					

Attach Calibration Sheet
Attach site map showing grid ID

KES
ENVIRONMENTAL INC.

OVA CALIBRATION LOG

Landfill: Bradley (out)

OPERATOR INITIALS	DATE	BATTERY CHECK	FLOW METER READING	ZONE READING			CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS						3PT. CALIBRATION CHECK		
				10	100	1000	LOW		MED		HIGH		LOW		MED		HIGH				
				PPM	PPM	PPM	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	PPM	PPM
PP	6/17/04	OK	1.5	—							500	500					500	500	—	—	500
RJ	6/17/04	OK	1.5	—							500	500					500	500	—	—	500
JE	6/17/04	OK	1.5	—							500	500					500	500	—	—	500
TL	6/17/04	OK	1.5	—							500	500					500	500	—	—	500
NC	6/17/04	OK	1.5	—							500	500					500	500	—	—	500
											500	500					500	500	—	—	500

LOG OF REMEDIAL WORK FOR INSTANTANEOUS SURFACE MONITORING

Site Name: Bradley Monitoring Period: Personnel: Paul Ponce

	INITIAL MONITORING		FIRST	SECOND MONITORING		SECOND	THIRD MONITORING	
Grid No.	Date	Toc	Remedial Work	Date	Toc	Remedial Work	Date	Toc
131	6/17/04	100,000	water & Tune System	6/25/04	5			
127	6/17/04	100,000	water & Tune System	6/25/04	20			
124	6/17/04	100,000	water & Tune System	6/25/04	5			
123	6/17/04	30,000	water & Tune System	6/25/04	5			
118	6/17/04	1,000	water & Tune System	6/25/04	200			
112	6/17/04	10,000	water & Tune System	6/25/04	300			
104	6/17/04	1000	water & Tune System	6/25/04	300			
5	6/17/04	500	water & Tune System	6/25/04	30			
22	6/17/04	20,000	water & Tune System	6/25/04	200			

1. Monitoring Date
2. TOC Reading in PPM

Signature:

APPENDIX E

LANDFILL GAS SAMPLING

- Laboratory Analysis
- Chain-of-Custody

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250
environmental consultants
laboratory services

June 8, 2004

LTR/308/04

Tom Sandhu
Shaw Environmental
Bradley Landfill
9081 Tujunga Ave.
Sun Valley, CA 91352

re: Bradley Landfill samples

Dear Tom:

Please find enclosed a copy of the laboratory analysis reports, quality assurance summaries, and chain of custody forms for four flares and one probe Tedlar bag sample received May 27 & June 1, 2004.

The Tedlar bag samples were analyzed SCAQMD 1150.1 components, permanent gases, total gaseous non-methane organics (TGNMO), hydrogen sufides, and reduced sulfur compounds as requested on the chain of custody forms.

The original reports were sent to Bruce Matlock at the Bradley Landfill office in Sun Valley.

Sincerely,

AtmAA, Inc.

Michael L. Porter
Laboratory Director

Encl.
MLP/bwf

AtmAA
23917 Cr[illegible]
C[illegible]

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Landfill Gas Tedlar Bag Samples

Report Date: August 10, 2004
Client: Shaw Environmental
Project Location: Bradley Landfill
Date Received: May 27, 2004
Date Analyzed: May 27 & 28, 2004

AtmAA Lab No.:	01484-26	01484-27	01484-28	01484-29
Sample I.D.:	Gas Plant BL-001	Flare #3 BL-002	Flare #2 BL-003	Flare #1 BL-004
Components		*(Concentration in %,v)*		
Nitrogen	21.4	39.0	36.4	20.4
Oxygen	1.40	4.35	2.56	1.10
Methane	39.6	28.4	31.3	40.6
Carbon dioxide	35.8	26.4	28.4	36.0
		(Concentration in ppmv)		
TGNMO	11200	4950	2750	8050
Hydrogen sulfide	59.9	16.8	40.2	56.0
		(Concentration in ppbv)		
Benzene	6590	6130	1520	3870
Benzylchloride	<40	<40	<40	<40
Chlorobenzene	190	114	118	129
Dichlorobenzenes*	2160	33.5	60.5	78.7
1,1-dichloroethane	350	131	87.8	433
1,2-dichloroethane	90.6	40.9	<20	75.4
1,1-dichloroethylene	74.9	48.1	<30	75.3
Dichloromethane	1900	276	118	2230
1,2-dibromoethane	<30	<30	<30	<30
Perchloroethylene	2900	1040	720	2000
Carbon tetrachloride	<30	<30	<30	<30
Toluene	51000	22800	6450	30900
1,1,1-trichloroethane	<20	<20	<20	<20
Trichloroethene	1080	447	207	911
Chloroform	<20	<20	<20	<20
Vinyl chloride	220	386	864	300
m+p-xylenes	27400	8840	6910	11800
o-xylene	3940	1080	1080	1560

The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.
The accuracy of the TCD/GC Method for permanent gases is +/- 2%, actual results are reported.
TGNMO is total gaseous non-methane organics measured and reported as ppm methane.
** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

AtmAA, Inc.
23917 Craftsman Rd
Calabasas, CA 91302

LABORATORY ANALYSIS REPORT

Hydrogen Sulfide, Reduced Sulfur Compounds, and BTU
Analysis in Landfill Gas Tedlar Bag Samples

Report Date: August 10, 2004
Client: Shaw Environmental
Project Location: Bradley Landfill
Date Received: May 27, 2004
Date Analyzed: May 27 & 28, 2004

ANALYSIS DESCRIPTION

Hydrogen sulfide was analyzed by gas chromatography with a Hall electrolytic conductivity detector operated in the oxidative sulfur mode. All other sulfur components were measured by GC/ Mass Spec. BTU is calculated from methane, which was measured by thermal conductivity detection/gas chromatography (TCD/GC), and total gaseous non-methane organics (TGNMO), which was measured by flame ionization detection/total combustion analysis (FID/TCA).

AtmAA Lab No.:	01484-26	01484-27	01484-28	01484-29
Sample I.D.:	Gas Plant BL-001	Flare #3 BL-002	Flare #2 BL-003	Flare #1 BL-004
Components	(Concentration in ppmv)			
Hydrogen sulfide	59.9	16.8	40.2	56.0
Carbonyl sulfide	0.28	0.14	0.12	0.34
Methyl mercaptan	3.52	1.41	0.37	3.81
Ethyl mercaptan	<0.1	<0.1	0.11	<0.1
Dimethyl sulfide	7.29	5.61	0.85	7.09
Carbon disulfide	0.24	0.12	0.13	0.17
isopropyl mercaptan	0.35	0.068	<0.06	0.37
n-propyl mercaptan	<0.06	<0.06	<0.06	<0.06
Dimethyl disulfide	0.26	0.28	0.12	0.14
TRS	72.3	24.8	42.2	68.2
BTU / ft.3	409	291	318	417

TRS - total reduced sulfur

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: May 27, 2004
Date Analyzed: May 27 & 28, 2004

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in %,v)			
Nitrogen	Gas Plant	21.4	21.4	21.4	0.0
Oxygen	Gas Plant	1.39	1.41	1.40	0.71
Methane	Gas Plant	39.7	39.6	39.6	0.13
Carbon dioxide	Gas Plant	35.6	35.9	35.8	0.42
		(Concentration in ppmv)			
TGNMO	Gas Plant	11000	11400	11200	1.8
		(Concentration in ppbv)			
Benzene	Gas Plant	6520	6660	6590	1.1
Benzylchloride	Gas Plant	<40	<40	---	---
Chlorobenzene	Gas Plant	187	192	190	1.3
Dichlorobenzenes	Gas Plant	2160	2160	2160	0.0
1,1-dichloroethane	Gas Plant	347	354	350	1.0
1,2-dichloroethane	Gas Plant	87.8	93.4	90.6	3.1
1,1-dichloroethylene	Gas Plant	82.7	67.1	74.9	10
Dichloromethane	Gas Plant	1980	1830	1900	3.9
1,2-dibromoethane	Gas Plant	<30	<30	---	---
Perchloroethylene	Gas Plant	2890	2920	2900	0.52
Carbon tetrachloride	Gas Plant	<30	<30	---	---
Toluene	Gas Plant	50000	52000	51000	2.0
1,1,1-trichloroethane	Gas Plant	<20	<20	---	---

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
Trichloroethene	Gas Plant	1070	1080	1080	0.46
Chloroform	Gas Plant	<20	<20	---	---
Vinyl chloride	Gas Plant	216	225	220	2.0
m+p-xylenes	Gas Plant	27500	27300	27400	0.36
o-xylene	Gas Plant	3970	3920	3940	0.63
Sulfur Components		*(Concentration in ppmv)*			
Hydrogen sulfide	Gas Plant	59.4	60.4	59.9	0.83
	Flare #3	16.8	16.8	16.8	0.0
	Flare #2	40.1	40.3	40.2	0.25
	Flare #1	56.9	55.1	56.0	1.6
Carbonyl sulfide	Gas Plant	0.28	0.28	0.28	0.0
Methyl mercaptan	Gas Plant	3.46	3.57	3.52	1.6
Ethyl mercaptan	Gas Plant	<0.1	<0.1	---	---
Dimethyl sulfide	Gas Plant	7.60	6.98	7.29	4.2
Carbon disulfide	Gas Plant	0.26	0.22	0.24	8.3
iso-propyl mercaptan	Gas Plant	0.36	0.34	0.35	2.8
n-propyl mercaptan	Gas Plant	<0.06	<0.06	---	---
Dimethyl disulfide	Gas Plant	0.26	0.25	0.26	2.0

Four Tedlar bag samples, laboratory numbers 01484-(26-29), were analyzed for SCAQMD 1150.1 components, permanent gases, TGNMO, hydrogen sulfide, and reduced sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 28 repeat measurements from the four Tedlar bag samples is 1.8%.

Shaw

Shaw Environmental and Infrastructure Inc.

CHAIN OF CUSTODY

Ref. Document # _____

Company Name: Shaw Envronmental & Infra., Inc.
Address: 9081 Tujunga Avenue
City / State / Zip: Sun Valley, CA 91352
Manager: Darrell Thompson
Phone/Fax Number: 818-767-0444
Send Report To: Tom Sandhu
Address: 9081Tujunga Avenue
City: Sun Valley, CA 91352
Project Contact: Tom Sandhu
Phone/Fax Number: (818) 822-5273

Project Number: 108341.01
Project Name: Bradley Landfill
Project Location: Sun Valley, California
Purchase Order #:
Lab Destination: AtmAA, Inc.
Lab Contact: Micheal
Lab Phone #: (818) 223-3277

Program: [ ] Navy [ ] AFCEE [ ] DOT [X] USACE [ ] NPDES [ ] RCRA [ ] Other

Shaw Sample Number	Sample Identification	Collection Information: Date	Time	Method	Matrix	# of Containers	QC Level	PRESERVATION: HCL	NaOH	HNO_3	H_2SO_4	Ice	Requesting Testing Program: Total BTU's	TOC Method 25	TAC Rule 1150.1	TRS / 307.91	Table 1 Core Group	Fixed Gases (CO_2, O_2, N_2)			H2S (ppm) Field Testing	MS/MSD = M, Field Duplicate = D
BL-001 01484-26	Gas Plant	05/27/04	13:05	LF	A	1							x	x	x	x	x				58	
BL-002 27	Flare #3	05/27/04	11:55	LF	A	1							x	x	x	x	x				20	
BL-003 28	Flare #1	05/27/04	13:30	LF	A	1							x	x	x	x	x				58	
BL-004 29	Flare #2	05/27/04	13:00	LF	A	1							x	x	x	x	x				38	

Special Instructions:

Sampler(s) Name(s): Ramon Ibarra

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Ramon Ibarra	5/27/04	1430		5-27-04	1430
	5-27-04				

Turnaround Time: Normal / Rush

Method Codes
C = Composite
G = Grab
LF - Low Flow

Matrix Codes
DW = Drinking Water
SO =Soil
GW = Ground Water
SL = Sludge
WW = Waste Water
CP = Chip Samples
SW = Surface Water
WP = Wipe Samples
LIQ = Other Liquid
A = Air Sample
SOL = Other Solid

APPENDIX F

AMBIENT AIR SAMPLING

- Laboratory Analysis
- Chain of Custody
- Wind Speed and Direction Records

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250
environmental consultants
laboratory services

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples

Report Date: May 6, 2004
Client: Waste Management
Site: Bradley Landfill
Date Received: May 4, 2004
Date Analyzed: May 4, 2004

AtmAA Lab No.:	01254-5	01254-6	01254-7	01254-8
Sample I.D.:	Ambient Air AA-1	Ambient Air AA-2	Ambient Air AA-3	Ambient Air AA-4
Components	(Concentration in ppmv)			
Methane	1.84	2.02	1.93	2.00
TGNMO	2.68	2.37	1.48	2.33
	(Concentration in ppbv)			
Hydrogen sulfide	<50	<50	<50	<50
Benzene	0.23	0.32	0.24	0.87
Benzylchloride	<0.4	<0.4	<0.4	<0.4
Chlorobenzene	<0.1	<0.1	<0.1	<0.1
Dichlorobenzenes*	<1.1	<1.1	<1.1	<1.1
1,1-dichloroethane	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethylene	<0.1	<0.1	<0.1	<0.1
Dichloromethane	0.14	0.13	<0.1	0.19
1,2-dibromoethane	<0.1	<0.1	<0.1	<0.1
Perchloroethene	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	0.11	0.11	0.11	0.12
Toluene	1.58	1.51	1.18	8.46
1,1,1-trichloroethane	<0.1	<0.1	<0.1	0.12
Trichloroethene	0.10	0.11	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1
Vinyl chloride	<0.1	<0.1	<0.1	<0.1
m+p-xylenes	0.62	0.57	0.60	3.06
o-xylene	0.11	0.10	0.10	0.51

TGNMO is total gaseous non-methane organics measured and reported as ppm methane.
** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Site: Bradley Landfill
Date Received: May 4, 2004
Date Analyzed: May 4, 2004

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	AA-1	1.79	1.90	1.84	3.0
TGNMO	AA-1	2.69	2.68	2.68	0.19
		(Concentration in ppbv)			
Hydrogen sulfide	AA-1	<50	<50	---	---
Benzene	AA-1	0.23	0.23	0.23	0.0
Benzylchloride	AA-1	<0.4	<0.4	---	---
Chlorobenzene	AA-1	<0.1	<0.1	---	---
Dichlorobenzenes	AA-1	<1.1	<1.1	---	---
1,1-dichloroethane	AA-1	<0.1	<0.1	---	---
1,2-dichloroethane	AA-1	<0.1	<0.1	---	---
1,1-dichloroethylene	AA-1	<0.1	<0.1	---	---
Dichloromethane	AA-1	0.15	0.12	0.14	11
1,2-dibromoethane	AA-1	<0.1	<0.1	---	---
Perchloroethene	AA-1	<0.1	<0.1	---	---
Carbon tetrachloride	AA-1	0.11	0.11	0.11	0.0
Toluene	AA-1	1.57	1.58	1.58	0.32
1,1,1-trichloroethane	AA-1	<0.1	<0.1	---	---
Trichloroethene	AA-1	0.11	0.10	0.10	4.8
Chloroform	AA-1	<0.1	<0.1	---	---
Vinyl chloride	AA-1	<0.1	<0.1	---	---
m+p-xylenes	AA-1	0.62	0.61	0.62	0.81
o-xylene	AA-1	0.10	0.12	0.11	9.1

Four Tedlar bag samples, laboratory numbers 01254-(5-8), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 9 repeat measurements from four Tedlar bag samples is 3.2%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
BRADLEY LANDFILL	SUN VALLEY
Project No.	**Field Logbook No.**
Sampler: (Print)	**(Signature)**
CHRIS SUMMERFORD	

No. Of Containers: 4

ANALYSES

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	TOC	TNC				Remarks
AA-1	5-2/3-04	0900-2100		AMBIENT	X	X				1150.1
AA-2	5-2/3-04	0900-2100		"	X	X				
AA-3	5-2/3-04	2100-0900		"	X	X				
AA-4	5-2/3-04	2100-0900		"	X	X				

	Date	Time		Date	Time
Relinquished by: (Signature)	5-4-04	1025	Received by: (Signature)	5-4-04	1025
Relinquished by: (Signature)	5/4/04	10:10	Received by: (Signature)		
Relinquished by: (Signature)			Received for Laboratory: (Signature)		
Sample Disposal Method:			Disposed of by: (Signature)		

Sample Collector

RES Environmental Inc.
865 Via Lata • Colton, California 92324
(909) 422-1001 Fax (909) 422-0707

Analytical Laboratory: A.T.M.I.A.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
BRADLEY LANDFILL	SUN VALLEY
Project No.	**Field Logbook No.**
Sampler: (Print)	**(Signature)**
CHRIS SUMMERFORD	

No. Of Containers: 4

ANALYSES

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	TVOC	TVOC				Remarks
AA-1	5-2/3-04	0900-2100		AMBIENT	X	X				1110.1
AA-2	5-2/3-04	0900-2100		1'	X	X				
AA-3	5-2/3-04	2100-0900		11	X	X				
AA-4	5-2/3-04	2100-0900		11	X	X				

	Date	Time		Date	Time
Relinquished by: (Signature)	5-4-04	1025	**Received by: (Signature)**	5-4-04	1025
Relinquished by: (Signature)	5/4/04	10:10	**Received by: (Signature)**		
Relinquished by: (Signature)			**Received for Laboratory: (Signature)**		
Sample Disposal Method:			**Disposed of by: (Signature)**		

Sample Collector

RES Environmental Inc.
865 Via Lata • Colton, California 92324
(909) 422-1001 Fax (909) 422-0707

Analytical Laboratory

A.T.M.I-I.A.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS / Waste Management	Bradley Landfill
Project No.	**Field Logbook No.**
11SC.1	

Sampler: (Print)	(Signature)	No. Of Containers
Paul Pease		2

ANALYSES

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	Methane	TNMO	TOC			Remarks
Grid 59	4/29/04	1005-1030		TGS 10L bag	x	x	x			
Grid 86	4/29/04	1005-1030		TGS 10L bag	x		x			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/30/04	8:33		4-30	0837
Relinquished by: (Signature)	**Date**	**Time**	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory: (Signature)**	**Date**	**Time**
Sample Disposal Method:			**Disposed of by: (Signature)**	**Date**	**Time**

Sample Collector	Analytical Laboratory
RES Environmental Inc.	Atmaa

RES Environmental Inc.
865 Via Lata • Colton, California 92324
(909) 422-1001 Fax (909) 422-0707

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

environmental consultants
laboratory services

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples

Report Date: May 10, 2004
Client: Waste Management
Site: Bradley Landfill
Date Received: May 4, 2004
Date Analyzed: May 4, 2004

AtmAA Lab No.:	01254-5	01254-6	01254-7	01254-8
Sample I.D.:	Ambient Air AA-1	Ambient Air AA-2	Ambient Air AA-3	Ambient Air AA-4
Components	(Concentration in ppmv)			
Methane	1.84	2.02	1.93	2.00
TGNMO	2.68	2.37	1.48	2.33
	(Concentration in ppbv)			
Hydrogen sulfide	<50	<50	<50	<50
Benzene	0.23	0.32	0.24	0.87
Benzylchloride	<0.4	<0.4	<0.4	<0.4
Chlorobenzene	<0.1	<0.1	<0.1	<0.1
Dichlorobenzenes*	<1.1	<1.1	<1.1	<1.1
1,1-dichloroethane	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethylene	<0.1	<0.1	<0.1	<0.1
Dichloromethane	0.14	0.13	<0.1	0.19
1,2-dibromoethane	<0.1	<0.1	<0.1	<0.1
Perchloroethene	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	0.11	0.11	0.11	0.12
Toluene	1.58	1.51	1.18	8.46
1,1,1-trichloroethane	<0.1	<0.1	<0.1	0.12
Trichloroethene	0.10	0.11	<0.1	<0.1
Chloroform	<0.1	<0.1	<0.1	<0.1
Vinyl chloride	<0.1	<0.1	<0.1	<0.1
m+p-xylenes	0.62	0.57	0.60	3.06
o-xylene	0.11	0.10	0.10	0.51

TGNMO is total gaseous non-methane organics measured and reported as ppm methane.
** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Site: Bradley Landfill
Date Received: May 4, 2004
Date Analyzed: May 4, 2004

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	AA-1	1.79	1.90	1.84	3.0
TGNMO	AA-1	2.69	2.68	2.68	0.19
		(Concentration in ppbv)			
Hydrogen sulfide	AA-1	<50	<50	---	---
Benzene	AA-1	0.23	0.23	0.23	0.0
Benzylchloride	AA-1	<0.4	<0.4	---	---
Chlorobenzene	AA-1	<0.1	<0.1	---	---
Dichlorobenzenes	AA-1	<1.1	<1.1	---	---
1,1-dichloroethane	AA-1	<0.1	<0.1	---	---
1,2-dichloroethane	AA-1	<0.1	<0.1	---	---
1,1-dichloroethylene	AA-1	<0.1	<0.1	---	---
Dichloromethane	AA-1	0.15	0.12	0.14	11
1,2-dibromoethane	AA-1	<0.1	<0.1	---	---
Perchloroethene	AA-1	<0.1	<0.1	---	---
Carbon tetrachloride	AA-1	0.11	0.11	0.11	0.0
Toluene	AA-1	1.57	1.58	1.58	0.32
1,1,1-trichloroethane	AA-1	<0.1	<0.1	---	---
Trichloroethene	AA-1	0.11	0.10	0.10	4.8
Chloroform	AA-1	<0.1	<0.1	---	---
Vinyl chloride	AA-1	<0.1	<0.1	---	---
m+p-xylenes	AA-1	0.62	0.61	0.62	0.81
o-xylene	AA-1	0.10	0.12	0.11	9.1

Four Tedlar bag samples, laboratory numbers 01254-(5-8), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 9 repeat measurements from four Tedlar bag samples is 3.2%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
BRADley LANDFILL	Sun Valley
Project No.	**Field Logbook No.**

ANALYSES

Sampler: (Print)	(Signature)	No. Of Containers
Chris Summerford		4

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	TOC	TAC				Remarks
AA-1	5-2/3-04	0900-2100	01254-5	AMBIENT	X	X				1150, 1
AA-2	5-2/3-04	0900-2100	-6	"	X	X				
AA-3	5-2/3-04	2100-0900	-7	"	X	X				
AA-4	5-2/3-04	2100-0900	-8	"	X	X				

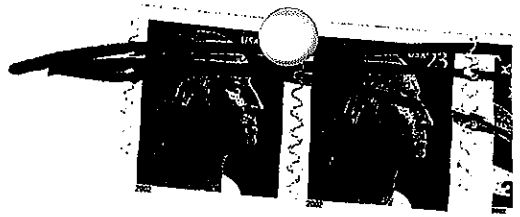
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5-4-04	1023		5-4-04	1023
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/4/04	10:10			
Relinquished by: (Signature)	Date	Time	Received for Laboratory: (Signature)	Date	Time
	5-4-04	1150		5/4/04	1150
Sample Disposal Method:			Disposed of by: (Signature)	Date	Time

Sample Collector

RES Environmental Inc.
865 Via Lata • Colton, California 92324
(909) 422-1001 Fax (909) 422-0707

Analytical Laboratory

A, T, M, IA, A.



AtmAA Inc.
23917 Craftsman Rd.
Calabasas, CA 91302

TO:

SCS Field Services
3711 Long Beach Blvd.
9th Floor
Long Beach, CA 90807-3315

Attn: Sederholm, Debby

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS / Waste management	Bradley Landfill

Project No.	Field Logbook No.
11SC1	

Sampler: (Print)	(Signature)	No. Of Containers
Paul Perez	[signature]	2

ANALYSES

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	Methane	TNMH	TGC			Remarks
Grid 54	4/29/04	1005-1030		TGS 10L Bag	x	x	x			
Grid 86	4/29/04	1005-1030		TGS 10L Bag	x		x			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	4/30/04	8:33	Jim Jorgensen	4-30	0837
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received for Laboratory: (Signature)	Date	Time

Sample Disposal Method:	Disposed of by: (Signature)	Date	Time

Sample Collector	Analytical Laboratory
RES Environmental Inc. 865 Via Lata • Colton, California 92324 (909) 422-1001 Fax (909) 422-0707	Atmaa

BRADLEY LANDFILL

Data: Wind Direction (16 points)
Station: BRADLEY
Period: MAY, 2004

Clock Time

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	8	8	10	8	9	9	9	12	12	12	12	1	1	1
3	16	1	1	1	1	1	1	2	9	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BRADLEY LANDFILL

Data: Wind Speed (MPH)
Station: BRADLEY
Period: MAY, 2004

Clock Time

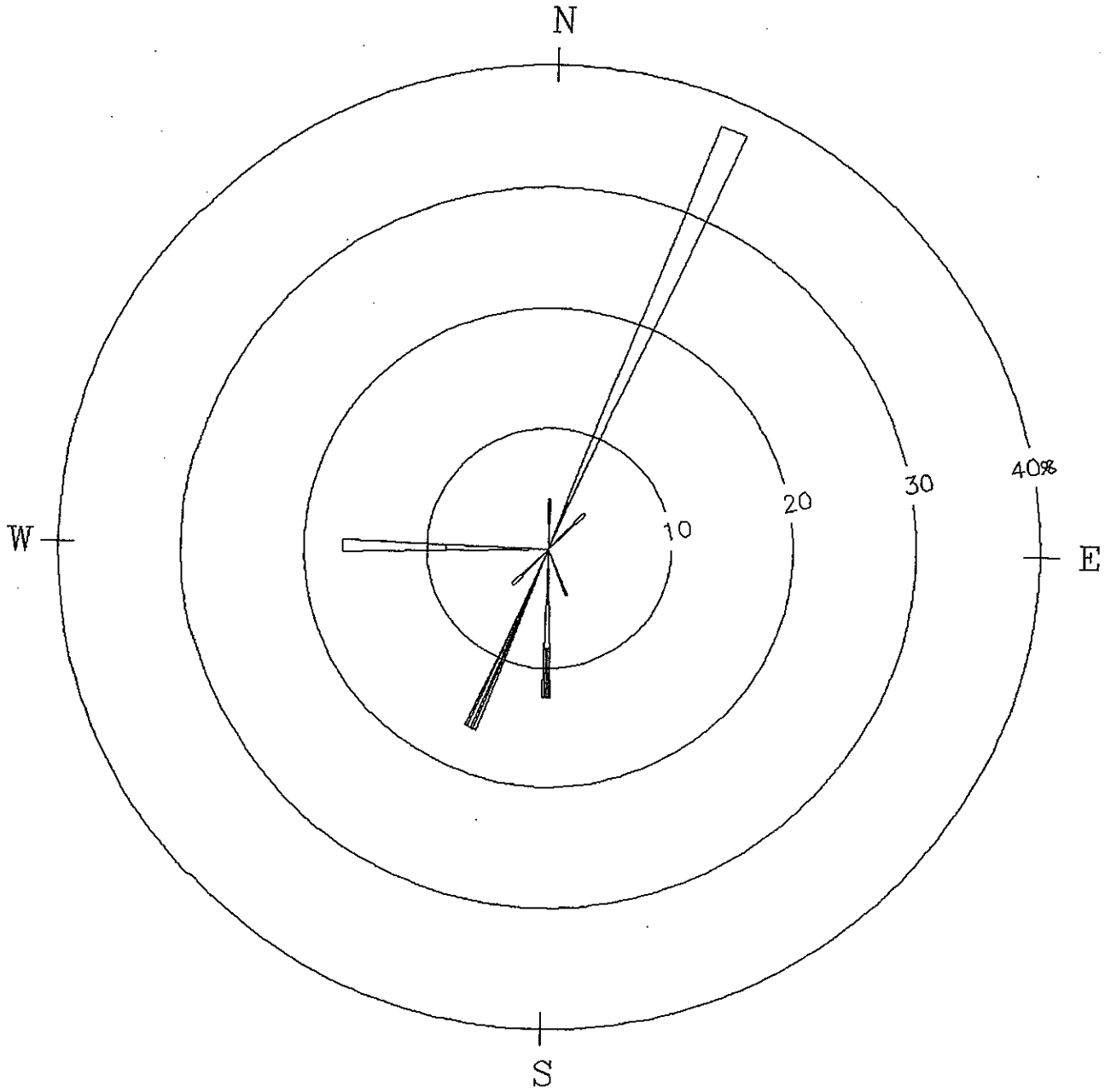
Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX	HR.	AVE.
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.00
2											2	4	4	6	8	8	8	9	10	4	3	3	3	3	10	18	5.36
3	4	2	4	5	5	4	4	3	1	2															5	3	3.40
AV	4	2	4	5	5	4	4	3	1	2	2	4	4	6	8	8	8	9	10	4	3	3	3	3			4.38
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

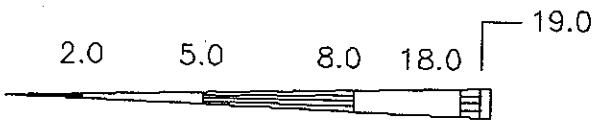
BRADLEY LANDFILL

Data: Wind Rose
Station: BRADLEY
Period: MAY 02, 2004
Hours: 10 - 09

Wind Speed and Direction
Frequency Distribution

Direction	Wind Speed (MPH) Group 0-2	3-5	6-8	9-18	19+	TOT	%TOT	AVE SPEED
16	0.0	4.1	0.0	0.0	0.0	1.0	4.17	4.00
1	4.1	33.0	0.0	0.0	0.0	9.0	37.50	3.67
2	0.0	4.1	0.0	0.0	0.0	1.0	4.17	3.00
3	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
4	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
5	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
6	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
7	4.1	0.0	0.0	0.0	0.0	1.0	4.17	2.00
8	4.1	4.1	4.1	0.0	0.0	3.0	12.50	4.00
9	4.1	0.0	12.0	0.0	0.0	4.0	16.67	6.25
10	0.0	4.1	0.0	0.0	0.0	1.0	4.17	4.00
11	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
12	0.0	8.3	0.0	8.3	0.0	4.0	16.67	6.50
13	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
14	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
15	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
MSG	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
TOT	16.0	58.0	16.0	8.3	0.0	24.0	100.00	2.09





WIND SPEED CLASS BOUNDARIES
(MILES/HOUR)

NOTES:
DIAGRAM OF THE FREQUENCY OF OCCURRENCE FOR EACH WIND DIRECTION. WIND DIRECTION IS THE DIRECTION FROM WHICH THE WIND IS BLOWING. EXAMPLE – WIND IS BLOWING FROM THE NORTH 4.2 PERCENT OF THE TIME.

WINDROSE

BRADLEY
PERIOD: 5/2/04

RES Environmental Inc.

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: BRADley BAG #

DATE PREPARED: 4-30-04 PREPARED BY: CMD

SAMPLER # 2 RUN DATE: 5-2-04

BAG INSTALLATION

BAG INSTALLED BY: CMD DATE: 5-2-04

FLOW READING: 85 cc ADJUSTED ? ( ) NO ( ) OPEN VALVE (✓)

TIME STARTED:

LOCAL 0900

LOCATION: AA-2

BAG REMOVAL

BAG REMOVED BY: CMD DATE: 5-3-04

CLOSE VALVE (✓) FLOW AT END: 85 cc

BAG STATUS: FULL (✓) 1/2 FULL ( ) EMPTY ( )

TIME ENDED:

LOCAL 2100

SAMPLER STATUS: WORKING (✓) NOT WORKING ( )
(specify in comments)

BATTERY STATUS GOOD (✓) BAD ( )

COMMENTS:

REVIEWED BY: CMD

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

RES Environmental Inc.

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: BRADley BAG #

DATE PREPARED: 4-30-04 PREPARED BY: CMD

SAMPLER # 1 RUN DATE: 5-2-04

BAG INSTALLATION

BAG INSTALLED BY: CMD DATE: 5-2-04

FLOW READING: 85 cc ADJUSTED ? ( ) NO ( ) OPEN VALVE (✓)

TIME STARTED:

LOCAL 2400

LOCATION: AA-3

BAG REMOVAL

BAG REMOVED BY: CMD DATE: 5-3-04

CLOSE VALVE (✓) FLOW AT END: 85 cc

BAG STATUS: FULL (✓) 1/2 FULL ( ) EMPTY ( )

TIME ENDED:

LOCAL 0900

SAMPLER STATUS: WORKING (✓) NOT WORKING ( )
(specify in comments)

BATTERY STATUS GOOD (✓) BAD ( )

COMMENTS:

REVIEWED BY: CMD

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 ; Fax (909) 422-0707

RES Environmental Inc.

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: BRADley BAG #

DATE PREPARED: 4-30-04 PREPARED BY: CMD

SAMPLER # 2 RUN DATE: 5-2-04

BAG INSTALLATION

BAG INSTALLED BY: CMD DATE: 5-2-04

FLOW READING: 85 cc ADJUSTED ? ( ) NO ( ) OPEN VALVE ✓

TIME STARTED:

LOCAL 0900

LOCATION: AA-2

BAG REMOVAL

BAG REMOVED BY: CMD DATE: 5-3-04

CLOSE VALVE ✓ FLOW AT END: 85 cc

BAG STATUS: FULL ✓ 1/2 FULL ( ) EMPTY ( )

TIME ENDED:

LOCAL 2106

SAMPLER STATUS: WORKING ✓ NOT WORKING ( )
(specify in comments)

BATTERY STATUS GOOD ✓ BAD ( )

COMMENTS:

REVIEWED BY: CMD

865 Via Lata • Colton, California 92324 • (909) 422-1001 Fax (909) 422-0707

RES Environmental Inc.

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: BRADley BAG #

DATE PREPARED: 4-30-04 PREPARED BY: CMD

SAMPLER # 2 RUN DATE: 5-2-04

BAG INSTALLATION

BAG INSTALLED BY: CMD DATE: 5-2-04

FLOW READING: 85 cc ADJUSTED ? ( ) NO ( ) OPEN VALVE (✓)

TIME STARTED:

LOCAL 2100

LOCATION: AA-4

BAG REMOVAL

BAG REMOVED BY: CMD DATE: 5-3-04

CLOSE VALVE (✓) FLOW AT END: 85 cc

BAG STATUS: FULL (✓) 1/2 FULL ( ) EMPTY ( )

TIME ENDED:

LOCAL 0900

SAMPLER STATUS: WORKING (✓) NOT WORKING ( )
(specify in comments)

BATTERY STATUS GOOD (✓) BAD ( )

COMMENTS:

REVIEWED BY: CMD

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

APPENDIX G

TEDLAR BAG QUALITY ASSURANCE AND CONTROL

- Tedlar Bag Checklist

RES Environmental Inc.

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: BRADley BAG #

DATE PREPARED: 4-30-04 PREPARED BY: CMD

SAMPLER # 1 RUN DATE: 5-2-04

BAG INSTALLATION

BAG INSTALLED BY: CMD DATE: 5-2-04

FLOW READING: 85 cc ADJUSTED ? ( ) NO ( ) OPEN VALVE (✓)

TIME STARTED:

LOCAL 0900

LOCATION: AA-1

BAG REMOVAL

BAG REMOVED BY: CMD DATE: 5-3-04

CLOSE VALVE (✓) FLOW AT END: 85 cc

BAG STATUS: FULL (✓) 1/2 FULL ( ) EMPTY ( )

TIME ENDED:

LOCAL 2100

SAMPLER STATUS: WORKING (✓) NOT WORKING ( )
(specify in comments)

BATTERY STATUS GOOD (✓) BAD ( )

COMMENTS:

REVIEWED BY: CMD

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

RES Environmental Inc.

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: BRADley BAG #

DATE PREPARED: 4-30-04 PREPARED BY: CMD

SAMPLER # 1 RUN DATE: 5-2-04

BAG INSTALLATION

BAG INSTALLED BY: CMD DATE: 5-2-04

FLOW READING: 85 cc ADJUSTED ? ( ) NO ( ) OPEN VALVE (✓)

TIME STARTED:

LOCAL 2100

LOCATION: AA-3

BAG REMOVAL

BAG REMOVED BY: CMD DATE: 5-3-04

CLOSE VALVE (✓) FLOW AT END: 85 cc

BAG STATUS: FULL (✓) 1/2 FULL ( ) EMPTY ( )

TIME ENDED:

LOCAL 0900

SAMPLER STATUS: WORKING (✓) NOT WORKING ( )
(specify in comments)

BATTERY STATUS GOOD (✓) BAD ( )

COMMENTS:

REVIEWED BY: CMD

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

RES Environmental Inc.

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: BRADley BAG #

DATE PREPARED: 4-30-04 PREPARED BY: CMP

SAMPLER # 2 RUN DATE: 5-2-04

BAG INSTALLATION

BAG INSTALLED BY: CMP DATE: 5-2-04

FLOW READING: 85 cc ADJUSTED ? ( ) NO ( ) OPEN VALVE (✓)

TIME STARTED:

LOCAL 0900

LOCATION: AA-2

BAG REMOVAL

BAG REMOVED BY: CMP DATE: 5-3-04

CLOSE VALVE (✓) FLOW AT END: 85 cc

BAG STATUS: FULL (✓) 1/2 FULL ( ) EMPTY ( )

TIME ENDED:

LOCAL 2106

SAMPLER STATUS: WORKING (✓) NOT WORKING ( )
(specify in comments)

BATTERY STATUS GOOD (✓) BAD ( )

COMMENTS:

REVIEWED BY: CMP

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

RES Environmental Inc.

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: BRADley BAG #

DATE PREPARED: 4-30-04 PREPARED BY: CMD

SAMPLER # 2 RUN DATE: 5-2-04

BAG INSTALLATION

BAG INSTALLED BY: CMD DATE: 5-2-04

FLOW READING: 85 cc ADJUSTED ? ( ) NO ( ) OPEN VALVE (✓)

TIME STARTED:

LOCAL 2100

LOCATION: AA-4

BAG REMOVAL

BAG REMOVED BY: CMD DATE: 5-3-04

CLOSE VALVE (✓) FLOW AT END: 85 cc

BAG STATUS: FULL (✓) 1/2 FULL ( ) EMPTY ( )

TIME ENDED:

LOCAL 0900

SAMPLER STATUS: WORKING (✓) NOT WORKING ( )
(specify in comments)

BATTERY STATUS GOOD (✓) BAD ( )

COMMENTS:

REVIEWED BY: CMD

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

LONG BEACH CA 90807-5407

P: BROWN S: 8 I:

0228-1000

1030

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NBB1SDY cacar113 Jul 16 07:46:20 2004
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Labels in This Space

ns: 1 UPS Tracking Label and your address label

UPS Next Day Air
UPS Worldwide ExpressSM
Shipping Document

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DOCUMENTS ONLY

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TELEPHONE
909-422-1001

ENVIRONMENTAL INC

/IA LATA

TON CA 92324-3915

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TELEPHONE
800 326-954

Blvd. 3rd flr.

90807

Residential

UPS Next Day Air®
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DELIVERY

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TRACKING NUMBER

DATE OF SHIPMENT
7/15/04

SHIPMENT ID NUMBER F902 0579 XJD

202609 11/00 W WAL 18.0A 04/2002 United Parcel Service, Louisville, KY

FROM: RES Environmental, Inc.
865 Via Lata
Colton, CA 92324

TO: SCS Field Services
Attn: Ken Pierce
4014 Long Beach Blvd 3rd Floor
Long Beach, CA 90807

% Recycled Fiber
% Post-Consumer Content)

al Shipping Notice – Carriage hereunder may be subject to the rules relating to liability and other terms and/or conditions established by the Convention for the Unification of Certain Rules Relating to International Carriage by Air (the "Warsaw Convention") and/or the Convention on the Contract for the International Goods by Road (the "CMR Convention"). These commodities, technology or software were exported from the U.S. in accordance with the Export Administration Regulations. Diversion contrary to U.S. law prohibited. For stopping places, call 1-800-782-7892.

010195201 Rev. 12/01 BL United Parcel Service, Louisville, KY

Call 1-80

4014 LONG BEACH BLVD

LONG BEACH CA 90807-5407

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accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

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DOCUMENTS ONLY

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UPS Next Day Air®

EXTREMELY URGENT

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DELIVERY

1Z F90 205 22 1000 097 9

TRACKING NUMBER

SHIPMENT ID NUMBER	F902 0579 XJD

DATE OF SHIPMENT

7/15/04

, KY

FROM: RES Environmental, Inc.
865 Via Lata
Colton, CA 92324

TO: SCS Field Services
Attn: Ken Pierce
4014 Long Beach Blvd 3rd Floor
Long Beach, CA 90807

and other terms and/or conditions established by the Convention for the Unification of Certain Rules Relating to International Carriage by Air (the "Warsaw Convention") and/or the Convention on the Contract for the International were exported from the U.S. in accordance with the Export Administration Regulations. Diversion contrary to U.S. law prohibited. For stopping places, call 1-800-782-7892.

010195201 Rev. 12/01 BL United Parcel Service, Louisville, KY

APPENDIX H

AGENCY CORRESPONDENCE

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

April 09, 2004

Mr. Larry Israel
Air Quality Inspector
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Submittal of Monthly OVA Sweep Data and Perimeter Refuse Boundary Probe Readings for March 2004, pursuant to SCAQMD Settlement Agreement, June 07, 2001, Bradley Landfill and Recycling Center (Facility I.D. No 050310)**

Dear Larry:

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting the attached March 2004 OVA sweep information and perimeter refuse boundary Probe readings, pursuant to the Settlement Agreement entered into on June 07, 2001.

SCS-Field Services (SCS-FS), the third party operator of the landfill gas collection system collected the data during the month of March. Monitoring was conducted over all of the landfill surfaces required by the 1150.1 compliance plan.

Active fill areas, highlighted in orange, were not monitored during this period. Individual well bores and other identified point source emissions are designated in red.

All hot spots were corrected within the two-week period after detection. If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: Ken Pierce - SCS-FS
f/SCAQMD Correspondence

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

May 03, 2004

Mr. Larry Israel
Air Quality Inspector
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Submittal of Monthly OVA Sweep Data and Perimeter Refuse Boundary Probe Readings for April 2004, pursuant to SCAQMD Settlement Agreement, June 07, 2001, Bradley Landfill and Recycling Center (Facility I.D. No 050310)**

Dear Larry:

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting the attached April 2004 OVA sweep information and perimeter refuse boundary Probe readings, pursuant to the Settlement Agreement entered into on June 07, 2001.

SCS-Field Services (SCS-FS), the third party operator of the landfill gas collection system collected the data during the month of April. Monitoring was conducted over all of the landfill surfaces required by the 1150.1 compliance plan.

Active fill areas, highlighted in orange, were not monitored during this period. Individual well bores and other identified point source emissions are designated in red.

All hot spots were corrected within the two-week period after detection. If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: Ken Pierce - SCS-FS
f/SCAQMD Correspondence

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

May 04, 2004

Mr. Larry Israel
Air Quality Inspector
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Submittal of Breakdown Form 500-N for the period including April 05, 2004 through April 24, 2004, Bradley Landfill and Recycling Center (Facility I.D. No 050310)**

Dear Larry,

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting the attached Breakdown Form 500-N for the period including April 05 through April 24, 2004.

No excess emissions were released during the attached events.

If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: Ken Pierce - SCS-FS
f/SCAQMD Correspondence

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

May 10, 2004

Mr. Larry Israel
Air Quality Inspector
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Submittal of Breakdown Form 500-N for the period including April 01, 2004 through April 14, 2004, Bradley Landfill and Recycling Center (Facility I.D. No 050310)**

Dear Larry,

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting the attached Breakdown Form 500-N for the period including April 01 through April 04, 2004.

No excess emissions were released during the attached events.

If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: Ken Pierce - SCS-FS
f/SCAQMD Correspondence

BRADLEY LANDFILL AND RECYCLING CENTEI
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

May 12, 2004

Mr. Jay Chen, P.E.
Public Facilities Branch
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, CA 91765

RE: Bradley Landfill and Recycling Center, Facility ID No. 050310
Rule 1150.1 First Quarter 2004 Sampling and Analytical Report

Dear Mr.Chen:

Enclosed on behalf of the Bradley Landfill and Recycling Center (BLRC) are the results of monitoring activities conducted pursuant to the Rule 1150.1 Compliance Plan for Bradley Landfill, adopted by the South Coast Air Quality Management District on February 18, 1993 and amended on June 19, 2002. The monitoring activities, which included instantaneous and integrated landfill surface monitoring, ambient air sampling and perimeter probe monitoring/sampling, were conducted in accordance with Bradley Landfill's Rule 1150.1 Compliance Plan.

Responsibility for management of the landfill gas system at BLRC was contractually transferred to a third-party contractor during the third quarter of 1999. On August 1, 1999, SCS-Field Services (SCS) assumed responsibility for the operation and maintenance of the landfill gas collection system and landfill gas processing facility. SCS responsibilities under the contract include sampling the landfill gas system to comply with Rule 1150.1.

If you have any questions or need additional information regarding this matter, please call me at (818) 9684696.

Sincerely,

Dean Wise
Operations Manager
Los Angeles Market Area

Enclosure

cc: John Workman, WMI (w/o enclosures)

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

May 24, 2004

Mr. Larry Israel
Air Quality Inspector
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Submittal of Breakdown Form 500-N for the period including May 01, 2004 through May 16, 2004, Bradley Landfill and Recycling Center (Facility I.D. No 050310)**

Dear Larry,

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting the attached Breakdown Form 500-N for the period including May 01 through May 16, 2004.

No excess emissions were released during the attached events.

If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: f/SCAQMD Correspondence

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

June 09, 2004

Mr. Larry Israel
Air Quality Inspector
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Submittal of Breakdown Form 500-N for the period including May 21, 2004 through June 02, 2004, Bradley Landfill and Recycling Center (Facility I.D. No 050310)**

Dear Larry,

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting the attached Breakdown Form 500-N for the period including May 21 through June 02, 2004.

No excess emissions were released during the attached events.

If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: f/SCAQMD Correspondence

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

June 10, 2002

Ms. Linda Mills
Public Records Requests
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Request for copies of Inspection Reports**
Bradley Landfill and Recycling Center (Facility ID. No. 050310)

Dear Ms. Mills:

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC), respectfully requests copies of inspection reports of investigations performed in response to odor complaint associated with Bradley Landfill between October 01, 2002 and April 01, 2004.

This information will be used to assess progress of odor mitigation efforts in the area surrounding the landfill.

If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: Doug Corcoran, District Manager
f/SCAQMD Correspondence (w/o encl.)

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

June 15, 2004

Mr. Ted Kowalczyk
South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, CA 91765

Re: SUBMITTAL OF 2004 ANNUAL EMISSIONS TEST RESULTS FOR LANDFILL GAS FLARES 1, 2 AND 3, BRADLEY LANDFILL AND RECYCLING CENTER, FACILITY No. 050310

Dear Ted:

Waste Management Recycling and Disposal Services of California, Inc., owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting flare source test results for flares #1, #2 and #3. These tests were conducted by Horizon Air Measurement Services, Inc. (Horizon), on April 20 and 23, 2004.

All testing/analytical procedures conformed to those outlined in Horizon Test Plan number W07-013-TP, which has been approved by the South Coast Air Quality Management District (SCAQMD). Flare #1 (Permit to Construct #425253) and flare #2 (Permit to Operate #F67269) were tested on April 20, 2004. Flare #3 (Permit to Operate F67268) was tested on April 21, 2004.

With the submittal of results for Flare #1, BLRC looks forward to the issuance of a Permit to Operate for this equipment.

If you have any questions or comments concerning these results please do not hesitate to contact me at (818) 252-3202.

Sincerely,

Bruce Matlock

Bruce Matlock
Compliance, Health and Safety Supervisor

Enc.

cc: f/Gas Recovery source tests
f/SCAQMD Correspondence(w/o encl.)
Darrell Thompson – Shaw/OWT (w/o encl.)

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

Information Management
Public Records Unit

Direct Dial: (909) 396-3700
Fax:(909) 396-3330

ACKNOWLEDGEMENT LETTER

June 25, 2004

BRUCE MATLOCK
BRADLEY LANDFILL AND RECYCLING CENTER
9081 TUJUNGA AVE.,
SUN VALLEY, CA 91352

Re: Request for Records
Control # 32731
Request: I/R'S FROM 10/1/02 TO 4/01/04 FOR ID #50310, BRADLEY LANDFILL & RECYCLING CENTER.

Your request for records has been received by the Public Records Unit has been assigned for proccessing.

When your request is completed, an appointment will be made with you for your review of the records, or copies of the requested records will be mailed to you along with an invoice for the direct cost of duplication at $ .15/page over 10 pages, $8.00/microfiche or $10.00/diskette.

Should you have any questions or need additional information regarding your request, please do not hesitate to contact me, Tuesday through Friday, **8:00 a.m.** to **4:30 p.m.** Please reference your Control Number listed above in all communications and correspondence.

Sincerely,

MARY HARRISON x2282
For Linda L. Mills
Public Records Coordinator

LLM: MH